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TROPICAL CYCLONE CENTER FIX DATA FOR THE 1975 TYPHOON SEASON.(U)
NOV 76

UNCLASSIFIED FLEWEACEN/JTWC-TN-76-5 NL

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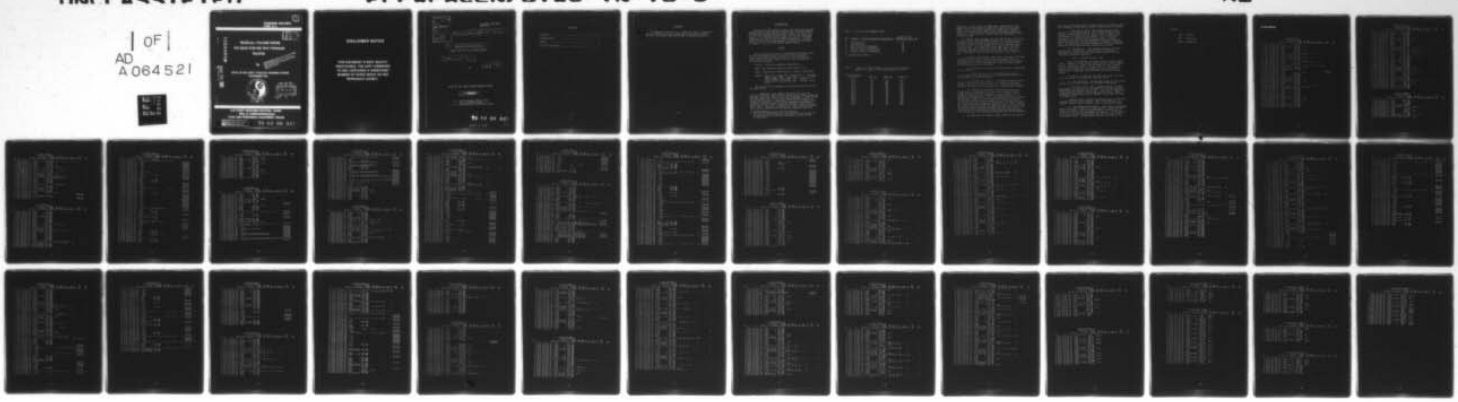

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FLEWEACEN TECH NOTE:
JTWC 76-5

LEVEL II

AD A064521

TROPICAL CYCLONE CENTER FIX DATA FOR THE 1975 TYPHOON SEASON

by

STAFF OF THE JOINT TYPHOON WARNING CENTER
NOVEMBER 1976

U.S. FLEET WEATHER CENTRAL GUAM
BOX 12 COMNAVMARIANAS
F.P.O. SAN FRANCISCO, CALIFORNIA 96630

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JTWC 76-5

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(6) TROPICAL CYCLONE CENTER FIX DATA FOR THE 1975 TYPHOON SEASON

(9) Technical note.

BY

(12) 4 pp.

STAFF OF THE JOINT TYPHOON WARNING CENTER

(11) NOVEMBER 1976

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ABSTRACT

A computer print-out of all center fix data is displayed for each tropical cyclone occurring in the western North Pacific, the Arabian Sea and the Bay of Bengal during 1975.

INTRODUCTION

During the 1975 typhoon season, 1857 fixes from various reconnaissance platforms were received at the Fleet Weather Central/Joint Typhoon Warning Center, Guam. Of these, 217 (11.7%) were obtained from aircraft, 444 (23.9%) from land radar, 2 (.1%) from aircraft radar, 965 (52.0%) from DMSP satellite and 229 (12.3%) from NOAA-4 satellite. A discussion of the various reconnaissance platforms is presented in Chapter II of the 1975 Annual Typhoon Report.

FORMAT

This fix data print-out is presented in calendar order for the 25 Western Pacific tropical cyclones and the 6 North Indian Ocean tropical cyclones. For all types of fixes, the first four columns list the same information in the following format:

FIX NO. - Fixes are numbered sequentially.

TIME - Day, hour and minutes (Zulu time) of fix.

POSIT - Position of storm center in degrees and tenths.

FIXCAT - Type of fix used (SAT - satellite, P - aircraft penetration, LRDR - land radar, AC R - aircraft radar, SRDR - ship radar, CPA - station experiencing eye passage, SCF - synoptic chart fix).

The format of the remainder of the print-out varies with the type of fix.

A. SATELLITE - The primary satellite fix data was obtained from USAF DMSP[1] sites at Nimitz Hill, Guam; Kadena AB, Okinawa; Yokota AB, Japan; Clark AB, Philippines; Nankon Phanom AB, Thailand[2]; and the Air Force Global Weather Central at Offutt AFB, Nebraska. Additional fix data was obtained from FLEWEAFAC Suitland, MD and from the National Environmental Satellite Service (NESS), Suitland, MD both of which utilized NOAA-4 data. Intensity estimates and trends (when available) are listed as derived from the Dovrak technique (NOAA TM,

1 Defense Meteorological Satellite Program

2 The site at Nakon Phanon AB, Thailand was deactivated and re-established at Clark AB, Philippines during 26 Aug-26 Sep 1975.

TABLE 1. POSITION CODE NUMBERS (PCN)

PCN	METHOD OF CENTER DETERMINATION/GRIDDING	RADIUS OF 90% PROBABILITY AREA (NM)
1	Eye/Geography	25
2	Eye/Ephemeris	25
3	Well Defined CC/Geography	40
4	Well Defined CC/Ephemeris	40
5	Poorly Defined CC/Geography	55
6	Poorly Defined CC/Ephemeris	55

CC=CIRCULATION CENTER

TABLE 2. Confidence (CONF) numbers as a function of Dvorak T Number and radius of 90% probability area (nm).

TROPICAL CYCLONE INTENSITY	CONF (1)	CONF (2)	CONF (3)
T1.5	60	120	170
T2.0	60	120	170
T2.5	60	120	170
T3.0	50	100	150
T3.5	45	90	140
T4.0	45	90	140
T4.5	45	90	140
T5.0	40	90	130
T5.5	40	80	130
T6.0	40	80	130
T6.5	30	70	120
T7.0	30	70	120
T7.5	30	60	100
T8.0	30	60	100

NESS-45). If the source was DMSP data, the Position Code Number (PCN) (See Table 1) appears followed by the acronym DMSP. If the source was NOAA-4 data, then NOAA-4 appears followed by the acronym CONF and the confidence number (see Table 2). Fixes based on infrared data are annotated by the acronym IR DATA.

B. RADAR - The latitude and longitude of the radar site is given in the POSIT OF RADAR column. If available, plain language remarks regarding tropical cyclone characteristics, size and accuracy of fix appear after AC & W and military radar reports. All other land radar contain (if available) a 5-digit code group identical to the WMO radar code for reporting tropical cyclone characteristics with regard to size, development and accuracy of location of the center or eye.

C. AIRCRAFT PENETRATION - This data is normally obtained at scheduled fix times. Intermittent aircraft fixes are sometimes made during peripheral data gathering legs between scheduled fixes. These intermittent fixes normally provide date, time and position data only.

The categories of aircraft reconnaissance information are as follows:

1. ACCRY (Accuracy): The estimated navigation (first number) and meteorological (second number) accuracies are expressed in nautical miles.

2. FIX LVL (Fix level): A constant-pressure-surface flight level (listed in millibars) is normally maintained during a tropical cyclone fix mission. Low-level missions (usually 1500 feet) are conducted at a constant true altitude.

3. MAX OBS FLT LVL WIND: Wind speed (knots) at flight level is measured by the AN/APN 147 doppler radar system aboard the WC-130 aircraft. Values entered in the category represent the maximum wind measured prior to obtaining a scheduled fix. This measurement may not represent the maximum flight level wind associated with the tropical cyclone because the aircraft samples only those portions of the tropical cyclone along the flight path. In many instances the flight path may be through the weak sector of the cyclone. In areas of heavy rainfall, the doppler radar may track energy reflected from precipitation rather than the sea surface. This limitation can prevent accurate wind speed measurement. In obvious cases such erroneous wind data will not be reported.

In addition, the doppler radar system on the WC-130

restricts wind measurements to drift angles less than or equal to 27 degrees if the wind is normal to the aircraft heading.

4. MAX OBS SFC WIND: The maximum surface wind (knots) is an estimate made by the Airborne Weather Reconnaissance Officer based on sea state. As in 3 above, this observation is limited to the region of the flight path, and may not be representative of the storm as a whole. Availability of data is also dependent upon the absence of undercast conditions and the presence of adequate illumination. The position of maximum flight level wind and maximum observed surface winds do not necessarily coincide.

5. OBS MIN SLP: The minimum observed sea level pressure on a 700 mb fix level mission is obtained by applying the minimum 700 millibar height (meters) to the following regression equation:

SLP = .115*(700 MB HT) + 645

This relationship is accurate within ±3 mb in most cases. However, if the 700 mb center and the surface center are not vertically aligned, the minimum sea level pressure will be erroneously high. In such cases, if the surface center can be detected, the minimum sea level pressure is obtained by a dropsonde released above the surface vortex center.

If the fix is made at the 1500 feet level, the sea level pressure is extrapolated from that level.

6. MIN 700 MB HT: The minimum height of the 700 mb surface in the vortex center is recorded in decameters.

7. FLT LVL TI/TO: This category denotes the maximum temperature measured in the center (TI) and the ambient temperature outside the center (TO). The outside temperature is measured just prior to entering the wall cloud. Both temperature observations are in degrees Celsius and are made at flight level.

Reconnaissance aircraft seldom penetrate on the same azimuth from one fix to another; thus, the position of TO normally varies from the center, both in bearing and range.

8. EYE FORM/ORIENTATION/DIA: The shape and diameter (nautical miles) of the eye is determined by visual observation or by radar. This is reported only if the center is 50 per cent or more surrounded by wall cloud. For elliptical eyes, the size of both the major and minor axis are given in nautical miles. Abbreviations for the eye forms are as

follows:

CIRC - Circular

ELIP - Elliptical

CONC - Concentric

FIX DATA PRINTOUT

TYPHOON LOLA
FIX POSITIONS FOR CYCLONE NO. 1
0600Z 22 JAN TO 0600Z 28 JAN

FIX NO.	TIME	POSIT	FIX CAT	ACCMY NAV-MET	FIX LVL	FLT LVL WIND DIR	VEL	MAX OBS SFC WIND BRG	RNG	MAX OBS WIND VEL	BRG	RNG	OBS MIN SLP	MIN /VORB HGT	FLT LVL T1/T0	EYE FORM	ORIENTATION	EYE DIA	POSIT OF RADAR	MSN NMBR
1	2012Z	4.6N 136.8E	SAT	(IN DATA				)		PCN 6 DMSP										
2	2024Z	6.5N 136.0E	SAT	(IN DATA				)		PCN 5 DMSP										
3	2100Z	9.4N 137.0E	SAT	(T2.0/2.0 /01.0/24HRS)						NOAA-4				(CONF 01)						
4	2124Z	6.4N 136.0E	SAT	(T1.5/1.5 / / HRS)						PCN 5 DMSP										
5	2200Z	7.1N 135.4E	SAT	(IN DATA				)		PCN 5 DMSP										
6	2211Z	7.4N 133.5E	SAT	(IN DATA				)		NOAA-4				(CONF 02)						
7	2211Z	7.5N 133.8E	SAT	(IN DATA				)		PCN 5 DMSP										
8	2214Z	7.7N 134.7E	SAT	(IN DATA				)		PCN 5 DMSP										
9	2214Z	7.4N 133.7E	SAT	(IN DATA				)		PCN 5 DMSP										
10	2221Z	7.4N 134.2E	P	2 2	700	170	45	90	30	45	90	30	985	997	13	-	-	- -	-		1
11	2222Z	8.0N 134.3E	SAT	(IN DATA				)		PCN 5 DMSP										
12	2300Z	8.5N 133.0E	SAT	(T2.5/2.5 /00.5/25HRS)						NOAA-4				(CONF 02)						
13	2306Z	8.1N 133.4E	SAT	(T3.0/3.0 / / HRS)						PCN 5 DMSP										
14	2306Z	8.1N 134.1E	SAT	(T2.0/2.0 / / HRS)						PCN 5 DMSP										
15	2306Z	8.2N 133.8E	P	10 2	700	40	50	300	100	55	350	100	987	997	11	-	-	- -	-		1
16	2306Z	8.2N 133.6E	SAT	(T3.0/3.0 /01.5/24HRS)						PCN 5 DMSP										
17	2312Z	9.0N 131.6E	SAT	(IN DATA				)		PCN 3 DMSP										
18	2312Z	8.1N 130.0E	SAT	(IN DATA				)		NOAA-4				(CONF 02)						
19	2314Z	8.0N 130.5E	P	5 12	700	150	70	30	45	-	-	-	979	992	20	15	CIRC		25		2
20	2318Z	9.6N 130.8E	SAT	(IN DATA				)		PCN 5 DMSP										
21	2318Z	9.6N 131.0E	SAT	(IN DATA				)		PCN 5 DMSP										
22	2318Z	9.0N 131.1E	SAT	(IN DATA				)		PCN 5 DMSP										
23	2320Z	8.5N 129.0E	P	10 10	700	50	75	300	50	-	-	-	976	989	20	15	FLIP	E-W	25A20		2
24	2400Z	9.6N 129.0E	SAT	(T4.5/4.5-/01.5/22HRS)						PCN 3 DMSP										
25	2400Z	9.5N 129.0E	SAT	(T4.0/4.0 /01.5/25HRS)						NOAA-4				(CONF 02)						
26	2401Z	9.3N 128.2E	SAT	(IN DATA				)		PCN 5 DMSP										
27	2401Z	9.4N 127.4E	SAT	(T4.5/4.5-/01.5/26HRS)						PCN 3 DMSP										
28	2401Z	8.3N 127.4E	SAT	(T4.0/4.0-/02.0/24HRS)						PCN 5 DMSP										
29	2406Z	10.3N 123.5E	LRDR	- 6////															10.3N 124.0E	
30	2404Z	9.5N 125.5E	LRDR	- 52H20															10.3N 124.0E	
31	2411Z	9.3N 126.6E	SAT	(IN DATA				)		NOAA-4				(CONF 02)						
32	2412Z	10.1N 124.9E	SAT	(IN DATA				)		PCN 5 DMSP										
33	2412Z	10.4N 125.0E	SAT	(IN DATA				)		PCN 5 DMSP										
34	2415Z	10.3N 123.9E	SAT	(IN DATA				)		PCN 5 DMSP										
35	2415Z	10.4N 124.3E	SAT	(IN DATA				)		PCN 5 DMSP										
36	2421Z	11.1N 120.1E	SAT	(T3.0/4.0+/W1.5/24HRS)						PCN 5 DMSP										
37	2421Z	11.3N 120.0E	SAT	(T2.5/2.5 / / HRS)						PCN 5 DMSP										
38	2421Z	11.5N 120.7E	SAT	(T3.0/4.0 /S1.5/21HRS)						PCN 5 DMSP										
39	2501Z	11.3N 120.5E	SAT	(T3.5/4.0+/W0.5/25HRS)						NOAA-4				(CONF 02)						
40	2504Z	11.6N 119.4E	SAT	(IN DATA				)		PCN 5 DMSP										
41	2504Z	11.5N 118.8E	SAT	(T3.0/4.0+/W1.0/24HRS)						PCN 5 DMSP										
42	2512Z	12.3N 116.9E	SAT	(IN DATA				)		PCN 5 DMSP										
43	2515Z	12.7N 115.8E	SAT	(IN DATA				)		PCN 5 DMSP										
44	2515Z	12.5N 116.3E	SAT	(IN DATA				)		PCN 5 DMSP										
45	2522Z	13.3N 114.4E	P	5 10	700	170	60	70	60	-	-	-	995	004	14	12	CIRC		50		3
46	2600Z	14.5N 113.8E	SAT	(T4.0/4.0 /00.5/23HRS)						NOAA-4				(CONF 01)						
47	2601Z	14.0N 113.6E	SAT	(T4.0/4.0-/01.0/25HRS)						PCN 5 DMSP										
48	2601Z	14.0N 113.6E	SAT	(T4.0/4.0-/01.0/25HRS)						PCN 5 DMSP										
49	2601Z	14.0N 114.1E	SAT	(IN DATA				)		PCN 5 DMSP										
50	2604Z	14.4N 112.7E	SAT	(IN DATA				)		PCN 5 DMSP										
51	2604Z	14.2N 113.2E	SAT	(T2.0/2.0 /W1.0/24HRS)						PCN 5 DMSP										
52	2612Z	15.4N 112.9E	SAT	(IN DATA				)		PCN 3 DMSP										
53	2617Z	16.1N 112.8E	SAT	(IN DATA				)		PCN 5 DMSP										
54	2617Z	16.2N 112.9E	SAT	(IN DATA				)		PCN 3 DMSP										
55	2700Z	17.2N 111.9E	SAT	(T3.0/4.0 /W1.0/23HRS)						PCN 5 DMSP										
56	2706Z	16.8N 112.1E	SAT	(IN DATA				)		PCN 4 DMSP										
57	2701Z	17.5N 111.5E	SAT	(T3.5/4.0 /W0.5/23HRS)						NOAA-4				(CONF 02)						
58	2704Z	16.7N 112.1E	SAT	(IN DATA				)		PCN 5 DMSP										
59	2704Z	17.1N 112.2E	SAT	(T2.0/2.0 /S / /24HRS)						PCN 3 DMSP										
60	2712Z	16.8N 112.5E	SAT	(IN DATA				)		NOAA-4				(CONF 02)						
61	2713Z	17.5N 114.3E	SAT	(IN DATA				)		PCN 5 DMSP										
62	2713Z	15.6N 112.9E	SAT	(IN DATA				)		PCN 3 DMSP										
63	2713Z	15.8N 112.7E	SAT	(IN DATA				)		PCN 3 DMSP										
64	2800Z	15.0N 112.2E	SAT	(T1.5/2.5-/W1.5/24HRS)						PCN 3 DMSP										
65	2800Z	14.2N 112.4E	SAT	(T1.0/1.5 /W1.0/20HRS)						PCN 3 DMSP										
66	2803Z	14.4N 111.8E	SAT	(T1.5/1.5 / / HRS)						PCN 3 DMSP										
67	2803Z	14.5N 111.7E	SAT	(T2.0/2.0 / / HRS)						PCN 3 DMSP										

TROPICAL DEPRESSION 2
FIX POSITIONS FOR CYCLONE NO. 2
1200Z 23 APR TO 0000Z 28 APR

FIX NO.	TIME	POSIT	FIX CAT	ACCRY NAV-MET	FIX LVL	MAX OBS FLT LVL WIND DIR	VEL	RAD	MAX OBS SFC WIND VEL	RAD	RNG	OBS MIN SLP	MIN 700MB HGT	FLT LVL TI/TO	EYE FORM	ORIENTATION	EYE DIA	POSIT OF RADAR	MSN NMBR
1	2011Z	5.7N 130.7E	SAT	(IR DATA)					PGN 5	DMSP									
2	2104Z	6.2N 126.8E	SAT	(T1.0/1.0 / / HRS)					PGN 5	DMSP									
3	2201Z	8.7N 126.3E	SAT	(T2.0/2.0 /D1.0/21HRS)					PGN 5	DMSP									
4	2203Z	9.1N 125.6E	SAT	(IR DATA)					PGN 5	DMSP									
5	2215Z	11.2N 123.6E	SAT	(IR DATA)					PGN 5	DMSP									
6	2315Z	12.0N 123.1E	SAT	(IR DATA)					PGN 6	DMSP									
7	2215Z	11.4N 122.7E	SAT	(IR DATA)					PGN 5	DMSP									
8	2300Z	11.7N 123.1E	SAT	(T2.0/2.0 /S /24HRS)					PGN 5	DMSP									
9	2300Z	12.0N 124.0E	SAT	(T1.5/1.5 /W0.5/23HRS)					NOAA-4			(CONF 02)							
10	2304Z	13.1N 123.6E	SAT	(T2.0/2.0 / / HRS)					PGN 5	DMSP									
11	2304Z	13.4N 124.2E	SAT	(T3.0/3.0 / / HRS)					PGN 5	DMSP									
12	2315Z	10.7N 121.8E	SAT	(IR DATA)					PGN 5	DMSP									
13	2315Z	10.8N 121.6E	SAT	(IR DATA)					PGN 5	DMSP									
14	2315Z	11.3N 121.2E	SAT	(IR DATA)					PGN 5	DMSP									
15	2311Z	10.9N 121.3E	SAT	(IR DATA)					PGN 5	DMSP									
16	2321Z	11.2N 121.0E	SAT	(IR DATA)					PGN 5	DMSP									
17	2321Z	11.1N 121.3E	SAT	(T2.0/2.0 /S /24HRS)					PGN 5	DMSP									
18	2401Z	9.4N 120.4E	P	3 20 700 150 25 40					40	-	-	-	1008	313	12	11	-	- -	-		1
19	2404Z	11.4N 121.1E	SAT	(T2.0/2.0+/S /24HRS)					PGN 5	DMSP									
20	2404Z	10.9N 121.2E	SAT	(T2.0/3.0 /W1.0/22HRS)					PGN 5	DMSP									
21	2411Z	11.0N 120.2E	P	5 50 600 130 20 80					100	-	-	-	1005	438	4	-	-	- -	-		2
22	2411Z	12.9N 122.0E	SAT	(IR DATA)					NOAA-4			(CONF 02)							
23	2412Z	10.7N 121.1E	SAT	(IR DATA)					PGN 5	DMSP									
24	2412Z	11.0N 120.9E	SAT	(IR DATA)					PGN 3	DMSP									
25	2412Z	11.3N 120.1E	P	1 30 700 10 25 240					30	-	-	-	1007	313	11	-	-	- -	-		2
26	2415Z	11.0N 120.2E	SAT	(IR DATA)					PGN 5	DMSP									
27	2415Z	11.0N 120.4E	SAT	(IR DATA)					PGN 6	DMSP									
28	2420Z	10.9N 120.1E	P	3 7 700 10 20 300					25	20	350	20	1007	312	10	-	-	- -	-		3
29	2501Z	11.0N 119.7E	SAT	(IR DATA)					PGN 5	DMSP									
30	2501Z	11.2N 120.2E	SAT	(IR DATA)					PGN 5	DMSP									
31	2503Z	11.1N 120.1E	SAT	(T2.0/2.0 /S /24HRS)					PGN 5	DMSP									
32	2503Z	11.0N 118.9E	SAT	(T2.0/2.0 /S /24HRS)					PGN 5	DMSP									
33	2503Z	10.9N 119.9E	SAT	(T2.0/2.0 /S /24HRS)					PGN 5	DMSP									
34	2512Z	11.4N 119.2E	SAT	(IR DATA)					PGN 5	DMSP									
35	2512Z	11.2N 118.7E	SAT	(IR DATA)					PGN 5	DMSP									
36	2515Z	10.9N 118.4E	SAT	(IR DATA)					PGN 3	DMSP									
37	2515Z	11.1N 118.8E	SAT	(IR DATA)					PGN 3	DMSP									
38	2800Z	11.1N 118.0E	SAT	(T2.0/2.0 /S /24HRS)					PGN 5	DMSP									
39	2800Z	12.0N 117.8E	SAT	(T2.0/2.0 /S /21HRS)					PGN 5	DMSP									
40	2800Z	11.5N 117.4E	SAT	(T2.0/2.0+/W0.5/24HRS)					NOAA-4			(CONF 01)							
41	2803Z	11.4N 117.0E	SAT	(T2.0/2.0 /S /24HRS)					PGN 5	DMSP									
42	2803Z	11.3N 117.7E	SAT	(T1.5/2.0 /W0.5/24HRS)					PGN 5	DMSP									
43	2811Z	12.1N 116.6E	P	5 10 1500 310 25 220					80	25	180	70	1003	-	26	-	-	- -	-		4
44	2811Z	11.7N 116.1E	SAT	(IR DATA)					PGN 5	DMSP									
45	2811Z	12.0N 116.0E	SAT	(IR DATA)					PGN 3	DMSP									
46	2812Z	11.5N 116.0E	SAT	(IR DATA)					NOAA-4			(CONF 01)							
47	2812Z	12.0N 115.5E	SAT	(IR DATA)					PGN 3	DMSP									
48	2812Z	11.8N 115.5E	SAT	(IR DATA)					PGN 4	DMSP									
49	2700Z	12.9N 117.2E	SAT	(T1.5/2.0 /W0.5/21HRS)					PGN 5	DMSP									
50	2700Z	12.3N 115.3E	SAT	(IR DATA)					PGN 5	DMSP									
51	2700Z	12.2N 114.3E	SAT	(T2.0/2.0+/S /24HRS)					PGN 3	DMSP									
52	2701Z	12.9N 115.7E	P	5 10 1500 270 30 180					40	30	180	40	1007	-	26	-	-	- -	-		5
53	2704Z	12.8N 115.0E	SAT	(T1.5/1.5-/S /25HRS)					PGN 5	DMSP									
54	2704Z	12.2N 114.7E	SAT	(IR DATA)					PGN 5	DMSP									
55	2712Z	13.0N 114.0E	SAT	(IR DATA)					NOAA-4			(CONF 02)							
56	2711Z	12.8N 113.6E	SAT	(IR DATA)					PGN 5	DMSP									
57	2713Z	12.5N 112.6E	SAT	(IR DATA)					PGN 3	DMSP									
58	2800Z	15.4N 114.9E	SAT	(T1.0/1.5 /W0.5/24HRS)					PGN 3	DMSP									
59	2800Z	15.4N 114.9E	SAT	(T1.0/1.0 / / HRS)					PGN 3	DMSP									
60	2800Z	14.4N 115.3E	SAT	(IR DATA)					PGN 5	DMSP									
61	2804Z	15.4N 115.5E	SAT	(T1.0/1.5-/W0.5/24HRS)					PGN 5	DMSP									

TROPICAL STORM MAMIE
FIX POSITIONS FOR CYCLONE NO. 3
0000Z 27 JUL TO 0600Z 29 JUL

FIX NO.	TIME	POSIT	FIX CAT	ACCRY NAV-MET	FIX LVL	MAX OBS FLT LVL WIND DIR	VEL	RAD	MAX OBS SFC WIND VEL	RAD	RNG	OBS MIN SLP	MIN 700MB HGT	FLT LVL TI/TO	EYE FORM	ORIENTATION	EYE DIA	POSIT OF RADAR	MSN NMBR
1	2427Z	18.6N 144.0E	SAT	(IR DATA)					PGN 5	DMSP									
2	2503Z	18.1N 143.3E	SAT	(IR DATA)					PGN 6	DMSP									
3	2504Z	19.0N 143.9E	SAT	(IR DATA)					PGN 6	DMSP									
4	2511Z	18.2N 143.8E	SAT	(IR DATA)					PGN 5	DMSP									
5	2521Z	17.8N 143.8E	SAT	(IR DATA)					PGN 6	DMSP									
6	2522Z	31.9N 114.5E	SAT	(T 0/6.5+/ 0.9/10HRS)					PGN 5	DMSP									
7	2522Z	17.5N 143.4E	SAT	(T 0/1.0 / / HRS)					PGN 5	DMSP									
8	2600Z	19.0N 145.3E	SAT	(T2.0/2.0 /D1.5/24HRS)					NOAA-4			(CONF 02)							
9	2607Z	21.1N 143.6E	P	5 25 1500 - - -					-	25	-	-	999	-	26	-	-	- -	-		1
10	2603Z	20.7N 144.2E	SAT	(IR DATA)					PGN 6	DMSP									
11	2603Z	20.5N 143.8E	SAT	(IR DATA)					PGN 6	DMSP									
12	2610Z	20.5N 144.5E	SAT	(IR DATA)					NOAA-4			(CONF 02)							
13	2611Z	21.1N 144.3E	SAT	(IR DATA)					PGN 6	DMSP									
14	2620Z	21.4N 144.3E	SAT	(IR DATA)					PGN 6	DMSP									
15	2620Z	21.3N 144.3E	SAT	(IR DATA)					PGN 6	DMSP									
16	2621Z	22.5N 142.6E	P	2 20 1500 140 30 70					35	30	100	40	1002	-	25	23	-	- -	-		2
17	2620Z	22.6N 141.8E	SAT	(T2.0/2.0 /D1.0/24HRS)					PGN 3	DMSP									
18	2620Z	23.1N 142.7E	SAT	(T1.0/1.0 /S /24HRS)					PGN 3	DMSP									
19	2623Z	21.4N 143.0E	SAT	(T3.0/3.0 /D1.0/23HRS)					NOAA-4			(CONF 01)							

TYPHOON BETTY
FIX POSITIONS FOR CYCLONE NO. 14
0600Z 17 SEP TO 1200Z 23 SEP

FIX NO.	TIME	POSIT	FIX CAT	ACCRY NAV-MET	FIX LVL	MAX OBS FLT LVL WIND DIR	VEL	RAD	MAX OBS SFC WIND VEL	RAD	RNG	OBS MIN SLP	MIN 700MB HGT	FLT LVL TI/TO	EYE FORM	ORIENTATION	EYE DIA	POSIT OF RADAR	MSN NMBR

TROPICAL STORM MAMIE
FIX POSITIONS FOR CYCLONE NO. 3
0000Z 27 JUL TO 0600Z 29 JUL

FIX NO.	TIME	POSIT	FIX CAT	ACCRY NAV-MET	FIX LVL	MAX OBS FLT LVL WIND DIR	VEL	BRG	RNG	MAX OBS SFC WIND VEL	BRG	RNG	OBS MIN SLP	MIN 700MB HGT	FLT LVL TT/TD	EYE FORM	ORIEN-TATION	EYE DIA	POSIT OF RADAR	MSA NMBR
20	270/0Z	22.7N 142.8E	SAT	(T3.0/3.0 / / HRS)						PCN 3 DMSP										
21	270/3Z	22.7N 142.2E	P	2 20 1500	110	30	10	25	35	110	40	1001	-	25 25	-	- -	-			2
22	270/6Z	22.3N 141.5E	SAT	(IR DATA)						PCN 6 DMSP										
23	270/9Z	22.8N 139.8E	SAT	(IR DATA)						PCN 6 DMSP										
24	271/0Z	22.4N 141.5E	SAT	(IR DATA)						PCN 5 DMSP										
25	271/6Z	22.5N 142.7E	SAT	(IR DATA)						PCN 6 DMSP										
26	271/9Z	22.3N 139.3E	SAT	(IR DATA)						NOAA-6			(CONF 02)							
27	271/28*	22.5N 141.4E	SAT	(IR DATA)						PCN 5 DMSP										
28	271/47Z	24.1N 140.6E	P	2 2	700	270	25	170	50	-	-	-	996	303	15 13	-	- -	-		3
29	272/0Z	22.8N 140.3E	SAT	(IR DATA)						PCN 6 DMSP										
30	272/6Z	24.1N 141.6E	SAT	(IR DATA)						PCN 6 DMSP										
31	272/10Z	24.4N 139.5E	P	1 10	700	210	25	150	20	-	-	-	996	305	14 12	-	- -	-		3
32	272/27Z	24.8N 139.5E	SAT	(T2.5/2.5 / / HRS)						PCN 3 DMSP										
33	272/28Z	24.8N 139.3E	SAT	(T2.0/2.0 /S /25HRS)						PCN 3 DMSP										
34	272/28Z	24.7N 139.7E	SAT	(T2.5/2.5 /D1.5/25HRS)						PCN 3 DMSP										
35	272/56Z	23.2N 139.5E	SAT	(T2.5/3.0 /W0.5/25HRS)						NOAA-6			(CONF 01)							
36	280/24Z	25.1N 138.6E	SAT	(T1.0/1.5+/W1.5/24HRS)						PCN 5 DMSP										
37	280/44Z	24.8N 138.4E	P	10 5	700	180	30	120	20	30	120	20	998	307	14 12	-	- -	-		4
38	280/50Z	25.9N 137.3E	P	5 15	700	150	35	40	100	35	40	100	997	306	15 14	-	- -	-		4
39	281/44Z	24.6N 137.5E	SAT	(IR DATA)						NOAA-6			(CONF 01)							
40	281/55Z	25.1N 137.3E	SAT	(IR DATA)						PCN 6 DMSP										
41	281/55Z	25.6N 137.1E	SAT	(IR DATA)						PCN 6 DMSP										
42	281/07Z	25.7N 136.9E	SAT	(IR DATA)						PCN 6 DMSP										
43	281/09Z	25.2N 137.3E	SAT	(IR DATA)						PCN 5 DMSP										
44	281/09Z	25.7N 136.8E	SAT	(IR DATA)						PCN 6 DMSP										
45	281/55Z	25.8N 135.5E	P	5 25	700	220	40	140	35	-	-	-	999	308	14 -	-	- -	-		5
46	282/02Z	26.0N 134.9E	P	13 7	700	-	20	-	-	-	-	-	1001	309	14 13	-	- -	-		5
47	282/58Z	26.9N 133.6E	SAT	(IR DATA)						PCN 3 DMSP										
48	282/58Z	27.0N 133.9E	SAT	(IR DATA)						PCN 3 DMSP										
49	282/10Z	27.0N 133.5E	SAT	(T1.0/2.0 /W1.0/24HRS)						PCN 3 DMSP										
50	282/10Z	27.0N 133.5E	SAT	(T2.0/2.5 /W0.5/24HRS)						PCN 3 DMSP										
51	282/10Z	26.9N 133.5E	SAT	(T2.0/2.5 /W0.5/24HRS)						PCN 3 DMSP										
52	290/05Z	26.1N 134.7E	SAT	(T1.0/1.5 /S /24HRS)						PCN 5 DMSP										
53	291/02Z	28.8N 131.7E	SAT	(IR DATA)						PCN 6 DMSP										
54	291/40Z	26.0N 131.0E	SAT	(IR DATA)						NOAA-6			(CONF 01)							
55	292/00Z	29.7N 131.1E	LMDR	- 65///															28.4N 129.5E	
56	292/00Z	30.1N 130.7E	LMDR	- 55///															30.6N 131.0E	
57	292/51Z	31.3N 130.8E	SAT	(T 0/1.0 /W1.0/24HRS)						PCN 3 DMSP										
58	292/51Z	30.6N 131.0E	SAT	(T1.0/2.0 /W1.5/24HRS)						PCN 3 DMSP										
59	292/00Z	30.6N 130.6E	LMDR	-															30.6N 131.0E	
60	300/00Z	30.2N 130.4E	LMDR	- 65///															30.6N 131.0E	

TYPHOON NINA
FIX POSITIONS FOR CYCLONE NO. 4
1200Z 31 JUL TO 0000Z 04 AUG

FIX NO.	TIME	POSIT	FIX CAT	ACCRY NAV-MET	FIX LVL	MAX OBS FLT LVL WIND DIR	VEL	BRG	RNG	MAX OBS SFC WIND VEL	BRG	RNG	OBS MIN SLP	MIN 700MB HGT	FLT LVL TT/TD	EYE FORM	ORIEN-TATION	EYE DIA	POSIT OF RADAR	MSA NMBR
1	282/10Z	21.2N 140.5E	SAT	(IR DATA)						PCN 5 DMSP										
2	292/51Z	20.2N 136.8E	SAT	(IR DATA)						PCN 3 DMSP										
3	301/41Z	20.6N 135.1E	SAT	(IR DATA)						PCN 6 DMSP										
4	302/14Z	19.3N 134.6E	SAT	(IR DATA)						PCN 5 DMSP										
5	310/14Z	17.9N 134.4E	SAT	(T1.0/1.0 / / HRS)						PCN 5 DMSP										
6	310/14Z	18.0N 134.0E	SAT	(T2.0/2.0 /D2.0/25HRS)						PCN 3 DMSP										
7	310/14Z	17.6N 134.2E	SAT	(T2.0/2.0 / / HRS)						PCN 5 DMSP										
8	310/22Z	17.8N 133.5E	SAT	(IR DATA)						PCN 4 DMSP										
9	311/01Z	18.2N 133.1E	SAT	(IR DATA)						PCN 6 DMSP										
10	311/13Z	17.9N 133.0E	SAT	(IR DATA)						PCN 4 DMSP										
11	311/14Z	18.0N 133.0E	SAT	(IR DATA)						PCN 6 DMSP										
12	311/55Z	17.8N 133.1E	SAT	(IR DATA)						PCN 3 DMSP										
13	311/55Z	17.9N 132.9E	SAT	(IR DATA)						PCN 5 DMSP										
14	312/56Z	17.4N 133.6E	SAT	(IR DATA)						PCN 5 DMSP										
15	312/10Z	18.0N 132.5E	P	5 5	700	180	36	110	122	-	-	-	985	295	16 12	-	- -	-		1
16	312/22Z	18.3N 132.5E	SAT	(IR DATA)						PCN 3 DMSP										
17	312/22Z	17.8N 132.5E	SAT	(IR DATA)						PCN 5 DMSP										
18	312/56Z	18.0N 132.5E	SAT	(T3.5/3.5 / / HRS)						PCN 4 DMSP										
19	312/56Z	18.2N 132.4E	SAT	(T3.5/3.5 /D1.5/24HRS)						PCN 3 DMSP										
20	312/56Z	18.4N 132.5E	SAT	(T3.0/3.0 /D1.0/24HRS)						PCN 1 DMSP										
21	010/38Z	14.8N 132.1E	P	5 5	700	310	40	230	60	45	220	45	979	290	17 15	-	- -	-		1
22	010/51Z	18.8N 132.1E	SAT	(T3.0/3.0+/D2.0/27HRS)						PCN 3 DMSP										
23	010/51Z	19.0N 132.2E	SAT	(T3.5/3.5 / / HRS)						PCN 3 DMSP										
24	010/51Z	19.0N 132.2E	SAT	(IR DATA)						PCN 3 DMSP										
25	010/51Z	18.9N 132.5E	SAT	(IR DATA)						PCN 3 DMSP										
26	011/07Z	20.0N 131.2E	SAT	(IR DATA)						PCN 2 DMSP										
27	011/07Z	19.9N 130.9E	SAT	(IR DATA)						PCN 2 DMSP										
28	011/07Z	20.0N 131.0E	SAT	(IR DATA)						PCN 2 DMSP										
29	011/38Z	19.8N 130.8E	SAT	(IR DATA)						PCN 3 DMSP										
30	011/38Z	20.2N 130.6E	SAT	(IR DATA)						PCN 5 DMSP										
31	011/38Z	20.4N 130.7E	SAT	(IR DATA)						PCN 3 DMSP										
32	011/38Z	20.4N 130.7E	SAT	(IR DATA)						PCN 5 DMSP										
33	011/47Z	20.6N 130.2E	P	5 5	700	200	55	140	40	-	-	-	967	283	15 15	CIRC		15		2
34	012/02Z	21.6N 128.9E	P	8 5	700	30	65	310	40	-	-	-	956	271	17 12	CIRC		15		2
35	012/38Z	22.1N 128.1E	SAT	(T5.5/5.5 /D2.0/24HRS)						PCN 3 DMSP										
36	012/38Z	21.8N 128.1E	SAT	(T5.0/5.0 /D1.5/24HRS)						PCN 1 DMSP										
37	012/38Z	21.8N 128.1E	SAT	(T4.5/4.5 /D1.5/24HRS)						PCN 1 DMSP										
38	020/32Z	22.1N 127.2E	SAT	(T5.5/5.5 /D2.5/24HRS)						PCN 1 DMSP										
39	020/32Z	22.1N 127.1E	SAT	(T5.5/5.5 /D2.0/ HRS)						PCN 1 DMSP										

TYPHOON NINA

FIX POSITIONS FOR CYCLONE NO. 4

1200Z 31 JUL TO 0000Z 04 AUG

FIX NO.	TIME	POSIT	FIX CAT	ACCRY NAV-MET	FIX LVL	FLT LVL DIR	MAX OBS WIND VEL	BRG	RNG	MAX OBS SFC WIND VEL	BRG	RNG	OBS MIN SLP	MIN 700MB HGT	FLT LVL TT/TD	EYE FORM	ORIENTATION	EYE DIA	POSIT OF RADAR	MSN NMBR
40	020332Z	22.2N 127.1E	SAT	(IR DATA	)				PCN 1	DMSP										
41	020332Z	22.2N 127.2E	SAT	(IR DATA	)				PCN 1	DMSP										
42	020436Z	22.3N 127.1E	P	5 2	700	180	120	120	20	110	120	20	920	240	24 12	CIRC		14		3
43	020500Z	22.3N 126.8E	LRDR	- POOR FIX															26.2N 127.7E	
44	020700Z	22.5N 126.5E	LRDR	- 1046															26.3N 124.2E	
45	020700Z	22.5N 126.8E	LRDR	- 2051Z															26.4N 125.3E	
46	020800Z	22.7N 126.2E	LRDR	- 1047															26.3N 124.2E	
47	020800Z	22.8N 126.2E	LRDR	- 1141Z															26.4N 125.3E	
48	020800Z	22.7N 126.3E	LRDR	- POOR FIX															26.2N 127.7E	
49	020900Z	22.9N 126.0E	LRDR	-															26.3N 124.2E	
50	020930Z	22.8N 126.2E	P	5 - 1047															26.3N 124.2E	
51	020900Z	22.9N 125.9E	LRDR	- 1241Z															26.4N 125.3E	
52	021000Z	22.9N 125.7E	LRDR	- 1041															26.3N 124.2E	
53	021000Z	23.0N 125.7E	LRDR	- 1031Z															26.4N 125.3E	
54	021000Z	22.5N 125.4E	AC R	- WC-130, 19,000 FEET																
55	021030Z	23.1N 125.2E	LRDR	- 1041															23.9N 121.6E	
56	021100Z	23.1N 125.4E	LRDR	- 1031Z															26.4N 125.3E	
57	021136Z	23.1N 125.2E	SAT	(IR DATA	)				PCN 1	DMSP										
58	021150Z	23.1N 125.1E	LRDR	- 1041															23.9N 121.6E	
59	021200Z	23.0N 125.2E	LRDR	- POOR FIX															26.2N 127.7E	
60	021200Z	23.0N 125.0E	LRDR	- 1041															26.3N 124.2E	
61	021200Z	23.1N 125.1E	LRDR	- 1041Z															26.4N 125.3E	
62	021319Z	23.4N 124.9E	SAT	(IR DATA	)				PCN 1	DMSP										
63	021319Z	23.1N 124.9E	SAT	(IR DATA	)				PCN 1	DMSP										
64	021319Z	23.1N 125.0E	SAT	(IR DATA	)				PCN 2	DMSP										
65	021350Z	23.0N 125.2E	LRDR	- POOR FIX															26.2N 127.7E	
66	021400Z	23.0N 124.8E	LRDR	- 1043															26.3N 124.2E	
67	021400Z	23.1N 124.8E	LRDR	- 1041Z															26.4N 125.3E	
68	021400Z	23.0N 124.6E	LRDR	- 1031Z															26.3N 124.2E	
69	021400Z	23.1N 124.6E	LRDR	- POOR FIX															26.2N 127.7E	
70	021400Z	23.1N 124.6E	LRDR	- 1031Z															26.4N 125.3E	
71	021436Z	23.2N 124.1E	P	10 2	700	310	90	210	15	-	-	-	-	225	31 15	CIRC		7		4
72	021450Z	23.1N 124.3E	LRDR	- 1038Z															23.9N 121.6E	
73	021500Z	23.1N 124.4E	LRDR	- 1031Z															26.3N 124.2E	
74	021500Z	23.2N 124.4E	LRDR	- 1041Z															26.4N 125.3E	
75	021600Z	23.2N 124.2E	LRDR	- 1031Z															26.4N 125.3E	
76	021736Z	23.2N 124.0E	SAT	(IR DATA	)				PCN 1	DMSP										
77	021750Z	23.2N 124.0E	LRDR	- 1026Z															23.9N 121.6E	
78	021700Z	23.2N 123.8E	LRDR	- 1031Z															26.3N 124.2E	
79	021700Z	23.3N 123.9E	LRDR	- 1041Z															26.4N 125.3E	
80	021750Z	23.2N 123.5E	LRDR	- 0021Z															23.9N 121.6E	
81	021800Z	23.9N 123.6E	LRDR	- 1031Z															26.3N 124.2E	
82	021800Z	23.3N 123.6E	LRDR	- 1041Z															26.4N 125.3E	
83	021900Z	23.4N 123.8E	LRDR	- 1031Z															26.3N 124.2E	
84	021900Z	23.3N 123.4E	LRDR	- 1041Z															26.4N 125.3E	
85	022000Z	23.4N 124.2E	LRDR	- 1031Z															26.3N 124.2E	
86	022000Z	23.4N 123.3E	LRDR	- 1041Z															26.4N 125.3E	
87	022050Z	23.4N 123.2E	LRDR																23.9N 121.6E	
88	022050Z	23.4N 123.1E	LRDR	- 1022Z															26.4N 125.3E	
89	022100Z	23.4N 123.1E	LRDR	- 1232Z															26.3N 124.2E	
90	022100Z	23.3N 123.3E	LRDR	- 1031Z															26.4N 125.3E	
91	022100Z	23.4N 123.1E	LRDR	- GOOD FIX															26.4N 125.3E	
92	022105Z	23.4N 123.1E	AC R	- GOOD FIX, EYE 10NM DIAMETER, CLOSED WALL CLOUD																
93	022200Z	23.4N 123.0E	LRDR	- 1031Z															26.4N 125.3E	
94	022200Z	23.4N 122.9E	LRDR	- 1031Z															26.3N 124.2E	
95	022236Z	23.6N 122.8E	SAT	(IR DATA	)				PCN 1	DMSP										
96	022400Z	23.6N 122.4E	SAT	(IR DATA	)				PCN 1	DMSP										
97	022341Z	23.5N 122.7E	SAT	(IR DATA	)				PCN 1	DMSP										
98	022400Z	23.4N 122.7E	LRDR	- 1041Z															26.3N 124.2E	
99	022400Z	23.6N 122.8E	LRDR	- 1241Z															26.4N 125.3E	
100	022436Z	23.2N 122.7E	SAT	(T6.0/6.0-/00.5/24HRS)					PCN 1	DMSP										
101	022436Z	23.6N 122.6E	SAT	(T6.0/6.0-/01.0/24HRS)					PCN 1	DMSP										
102	022700Z	23.6N 122.7E	SAT	(IR DATA	)				PCN 1	DMSP										
103	030100Z	23.9N 122.2E	LRDR	- 1031Z															26.3N 124.2E	
104	030100Z	23.7N 122.3E	LRDR	- 1141Z															26.4N 125.3E	
105	030101Z	23.9N 122.7E	SAT	(T6.0/6.0-/01.5/25HRS)					PCN 1	DMSP										
106	030113Z	23.5N 122.3E	SAT	(T5.5/5.5-/01.0/25HRS)					ADAA=4				(CONF DT)							
107	030200Z	24.0N 121.9E	LRDR	- 1206Z															26.3N 124.2E	
108	030700Z	23.9N 122.1E	LRDR	- 1141Z															26.4N 125.3E	
109	030400Z	24.1N 121.6E	LRDR	- 0506Z															26.3N 124.2E	
110	030400Z	24.3N 121.4E	LRDR	- 0727Z															26.4N 124.2E	
111	030600Z	24.1N 120.5E	LRDR	- 56///															22.8N 120.3E	
112	030700Z	24.1N 120.4E	LRDR	- 56///															22.8N 120.3E	
113	030400Z	24.1N 120.3E	LRDR	- 56///															22.8N 120.3E	
114	030500Z	24.1N 120.3E	LRDR	- 56///															22.8N 120.3E	
115	031124Z	24.6N 119.7E	SAT	(IR DATA	)				PCN 6	DMSP										
116	031124Z	24.4N 119.7E	SAT	(IR DATA	)				PCN 4	DMSP										
117	031124Z	24.1N 119.3E	SAT	(IR DATA	)				PCN 5	DMSP										
118	031125Z	24.9N 118.0E	SAT	(IR DATA	)				ADAA=4				(CONF DT)							
119	031342Z	25.1N 119.2E	SAT	(IR DATA	)				PCN 5	DMSP										
120	031422Z	24.8N 119.9E	SAT	(IR DATA	)				PCN 5	DMSP										
121	031400Z	24.7N 119.3E	LRDR	- 56///															22.8N 120.3E	
122	031700Z	24.9N 119.0E	LRDR	- 56///															22.8N 120.3E	
123	031700Z	25.0N 118.5E	LRDR	- 56///															22.8N 120.3E	
124	032282	25.0N 117.0E	SAT	(IR DATA	)				PCN 5	DMSP										
125	040012Z	25.1N 115.2E	SAT	(IR DATA	)				PCN 5	DMSP										
126	040042Z	25.5N 116.5E	SAT	(IR DATA	)				PCN 5	DMSP										
127	041112Z	27.8N 113.9E	SAT	(IR DATA	)				PCN 6	DMSP										

TROPICAL DEPRESSION 5
FIX POSITIONS FOR CYCLONE NO. 5
0600Z 06 AUG TO 0000Z 07 AUG

FIX NO.	TIME	POSIT	FIX CAT	ACCRY NAV-MET	FIX LVL	MAX OBS FLT LVL WIND DIR	VEL	BRG	RNG	MAX OBS SFC WIND VEL	BRG	RNG	OBS MIN SLP	MIN 700MB HGT	FLT LVL TI/TO	EYE FORM	ORIEN-TATION	EYE DIA	POSIT OF RADAR	MSN NMHR
1	0611127	19.2N 128.4E	SAT	(IR DATA				)		PCN 6 DMSP										
2	0611257	22.7N 129.8E	SAT	(IR DATA				)		NOAA-4			(CONF 02)							
3	0622167	19.4N 126.4E	SAT	(IR DATA				)		PCN 5 DMSP										
4	0623367	23.0N 127.5E	SAT	(T1.0/1.0 /D		/24HRS)				NOAA-4			(CONF 01)							
5	0500247	19.5N 126.2E	SAT	(T1.0/1.0 /		/ HRS)				PCN 5 DMSP										
6	0511007	21.2N 125.8E	SAT	(IR DATA				)		PCN 6 DMSP										
7	0511007	21.0N 125.7E	SAT	(IR DATA				)		PCN 6 DMSP										
8	0512207	25.0N 125.1E	SAT	(IR DATA				)		NOAA-4			(CONF 01)							
9	0513057	21.0N 125.7E	SAT	(IR DATA				)		PCN 5 DMSP										
10	0513067	21.1N 125.9E	SAT	(IR DATA				)		PCN 5 DMSP										
11	0522037	22.4N 126.8E	SAT	(IR DATA				)		PCN 3 DMSP										
12	0600067	22.9N 126.8E	SAT	(T1.0/1.0 /S		/24HRS)				PCN 3 DMSP										
13	0600067	22.4N 127.6E	SAT	(T1.0/1.0 /		/ HRS)				PCN 5 DMSP										
14	0600067	22.9N 126.9E	SAT	(T1.0/1.0 /		/ HRS)				PCN 5 DMSP										
15	0600327	25.5N 122.5E	SAT	(IR DATA				)		NOAA-4			(CONF 01)							
16	0610487	25.5N 124.5E	SAT	(IR DATA				)		PCN 4 DMSP										
17	0610487	26.4N 124.7E	SAT	(IR DATA				)		PCN 4 DMSP										
18	0611207	23.1N 123.5E	SAT	(IR DATA				)		NOAA-4			(CONF 02)							
19	0612477	25.9N 124.6E	SAT	(IR DATA				)		PCN 3 DMSP										
20	0612477	25.8N 124.1E	SAT	(IR DATA				)		PCN 3 DMSP										
21	0621517	26.8N 122.1E	SAT	(IR DATA				)		PCN 3 DMSP										
22	0621517	26.0N 122.0E	SAT	(IR DATA				)		PCN 4 DMSP										
23	0623477	27.1N 121.7E	SAT	(T 0/1.0 /W		/24HRS)				PCN 3 DMSP										

TYPHOON ORA
FIX POSITIONS FOR CYCLONE NO. 6
0600Z 10 AUG TO 1200Z 12 AUG

FIX NO.	TIME	POSIT	FIX CAT	ACCRY NAV-MET	FIX LVL	MAX OBS FLT LVL WIND DIR	VEL	BRG	RNG	MAX OBS SFC WIND VEL	BRG	RNG	OBS MIN SLP	MIN 700MB HGT	FLT LVL TI/TO	EYE FORM	ORIEN-TATION	EYE DIA	POSIT OF RADAR	MSN NMHR
1	0810247	17.1N 128.2E	SAT	(IR DATA				)		PCN 6 DMSP										
2	0821127	19.1N 127.0E	SAT	(IR DATA				)		PCN 3 DMSP										
3	0903047	20.7N 123.3E	SAT	(T 0/1.0 /		/ HRS)				PCN 4 DMSP										
4	0910127	20.5N 126.1E	SAT	(IR DATA				)		PCN 6 DMSP										
5	0911527	20.6N 126.0E	SAT	(IR DATA				)		PCN 5 DMSP										
6	0912087	20.5N 125.5E	SAT	(IR DATA				)		NOAA-4			(CONF 01)							
7	1000217	22.0N 125.5E	SAT	(T2.0/2.0 /D1.5/24HRS)						NOAA-4			(CONF 01)							
8	1000337	22.0N 125.4E	SAT	(T1.0/1.0 /		/ HRS)				PCN 6 DMSP										
9	1000347	22.1N 125.6E	SAT	(T1.0/1.0 /		/ HRS)				PCN 5 DMSP										
10	1002457	21.6N 125.8E	SAT	(T2.5/2.5 /D1.5/24HRS)						PCN 3 DMSP										
11	1003007	21.7N 125.2E	LRDR	- 7////															24.4N 125.3E	
12	1005007	21.8N 124.5E	LRDR	- 7////															24.8N 125.3E	
13	1011097	23.0N 124.3E	SAT	(IR DATA				)		NOAA-4			(CONF 03)							
14	1011427	22.4N 125.0E	SAT	(IR DATA				)		PCN 6 DMSP										
15	1011427	22.2N 125.4E	SAT	(IR DATA				)		PCN 6 DMSP										
16	1013157	22.4N 124.9E	SAT	(IR DATA				)		PCN 3 DMSP										
17	1013157	22.5N 124.8E	SAT	(IR DATA				)		PCN 5 DMSP										
18	1013157	22.4N 123.5E	SAT	(IR DATA				)		PCN 6 DMSP										
19	1021007	23.1N 125.2E	LRDR	- 5////															24.3N 124.2E	
20	1021017	23.5N 125.0E	P	1 10	700	190	70	90	110	-	-	-	978	290	13	-	-	- -	-	2
21	1022007	23.4N 125.2E	LRDR	- 5////															24.3N 124.2E	
22	1022007	23.4N 125.1E	LRDR	- 2////															24.8N 125.3E	
23	1022447	23.5N 125.5E	SAT	(IR DATA				)		PCN 5 DMSP										
24	1022457	23.7N 125.5E	SAT	(IR DATA				)		PCN 3 DMSP										
25	1023007	23.4N 125.2E	LRDR	- 2////															24.3N 124.2E	
26	1023007	23.8N 125.1E	LRDR	- 5////															24.8N 125.3E	
27	1100157	24.0N 125.3E	SAT	(T3.5/3.5 /D2.5/24HRS)						PCN 3 DMSP										
28	1100157	24.1N 125.7E	SAT	(T3.5/3.5 /D2.5/24HRS)						PCN 3 DMSP										
29	1100157	23.8N 125.6E	SAT	(T4.0/4.0 /		/ HRS)				PCN 5 DMSP										
30	1100167	24.0N 125.6E	SAT	(T3.5/3.5 /		/ HRS)				PCN 3 DMSP										
31	1101167	24.0N 125.2E	SAT	(T3.5/3.5 /D1.5/25HRS)						NOAA-4			(CONF 01)							
32	1102007	23.9N 125.3E	LRDR	- 6////															24.8N 125.3E	
33	1104007	24.2N 125.3E	P	5 5	700	360	55	170	20	60	170	20	978	290	15	13	-	- -	-	3
34	1104087	24.6N 125.1E	SAT	(T4.0/4.0 /D1.5/24HRS)						PCN 1 DMSP										
35	1107007	24.7N 125.7E	LRDR	- 5////															24.3N 124.2E	
36	1107007	24.8N 125.7E	LRDR	- 5////															24.8N 125.3E	
37	1107007	24.7N 125.7E	LRDR	- 25703															26.1N 127.8E	
38	1107107	24.7N 125.2E	LRDR	- 10 DEGREE SPIRAL OVERLAY, POOR FIX															26.0N 127.8E	
39	1107427	25.0N 125.2E	LRDR	- FAIR FIX															26.0N 127.8E	
40	1108007	25.3N 125.9E	LRDR	- 5////															24.3N 124.2E	
41	1108007	25.2N 125.7E	LRDR	- 6////															24.8N 125.3E	
42	1108007	25.0N 125.7E	LRDR	- 35//3															26.1N 127.8E	
43	1108107	25.3N 125.2E	LRDR	- 15 DEGREE SPIRAL OVERLAY, POOR FIX, NO WALL CLOUD															26.0N 127.8E	
44	1108457	25.4N 125.3E	LRDR	- 15 DEGREE SPIRAL OVERLAY, POOR FIX, NO WALL CLOUD															26.0N 127.8E	
45	1109007	25.5N 125.6E	LRDR	- 6////															24.3N 124.2E	
46	1109007	25.6N 125.6E	LRDR	- 6////															24.8N 125.3E	
47	1109007	25.4N 125.7E	LRDR	- 65///															26.1N 127.8E	
48	1109107	25.3N 125.3E	LRDR	- 15 DEGREE SPIRAL OVERLAY, POOR FIX, 40 PERCENT WALL CLOUD, DIAMETER 20NM															26.0N 127.8E	
49	1109207	25.5N 125.3E	P	1 5	700	240	55	160	60	55	160	60	977	289	13	11	-	- -	-	4
50	1110007	25.8N 125.3E	LRDR	- 6////															24.8N 125.3E	

TYPHOON OWA
FIX POSITIONS FOR CYCLONE NO. 6
060002 10 AUG TO 120002 12 AUG

FIX NO.	TIME	POSIT	FIX CAT	ACCMY NAV-MET	FIX LVL	FLT LVL WIND DIR	MAX OBS VEL	MAX OBS BRG	MAX OBS RNG	MAX OBS SFC WIND VEL	MAX OBS SFC WIND BRG	MAX OBS SFC WIND RNG	OBS MIN SLP	MIN 700MB HGT	FLT LVL TI/TO	EYE FORM	ORIEN-TATION	EYE DIA	POSIT OF RADAR	MSN NMBR
51	111010Z	25.9N 125.9E	LRDR	- 15 DEGREE SPIRAL OVERLAY, POOR FIX, NO WALL CLOUD															26.4N 127.8E	
52	111100Z	25.8N 125.3E	LRDR	- 6////															26.4N 126.3E	
53	111100Z	25.8N 125.4E	LRDR	- 65///															26.1N 127.8E	
54	111130Z	26.1N 125.0E	SAT	(IR DATA)						PCN 5 DMSP										
55	111130Z	26.3N 124.7E	SAT	(IR DATA)						PCN 6 DMSP										
56	111135Z	26.1N 125.2E	LRDR	- 20 DEGREE SPIRAL OVERLAY, POOR FIX, NO WALL CLOUD															26.4N 127.8E	
57	111200Z	26.3N 125.5E	LRDR	- 65///															26.1N 127.8E	
58	111205Z	26.0N 124.8E	SAT	(IR DATA)						NOAA-4			(CONF 01)							
59	111610Z	26.4N 124.9E	LRDR	- 20 DEGREE SPIRAL OVERLAY, POOR FIX, NO WALL CLOUD															26.4N 127.8E	
60	111634Z	26.4N 124.8E	LRDR	- 20 DEGREE SPIRAL OVERLAY, NO WALL CLOUD															26.4N 127.8E	
61	111657Z	26.1N 124.7E	SAT	(IR DATA)						PCN 3 DMSP										
62	111657Z	26.4N 124.6E	SAT	(IR DATA)						PCN 3 DMSP										
63	111657Z	26.4N 125.0E	SAT	(IR DATA)						PCN 5 DMSP										
64	111700Z	26.3N 124.9E	LRDR	- 6////															26.1N 127.8E	
65	111700Z	26.4N 125.0E	LRDR	- 65///															26.1N 127.8E	
66	111810Z	26.5N 124.8E	LRDR	- 20 DEGREE SPIRAL OVERLAY, POOR FIX, NO WALL CLOUD															26.4N 127.8E	
67	111835Z	26.5N 124.7E	LRDR	- 20 DEGREE SPIRAL OVERLAY, POOR FIX, NO WALL CLOUD															26.4N 127.8E	
68	111900Z	26.5N 124.6E	LRDR	- 6////															26.4N 126.3E	
69	111900Z	26.5N 125.0E	LRDR	- 65///															26.1N 127.8E	
70	111910Z	26.6N 124.7E	LRDR	- 20 DEGREE SPIRAL OVERLAY, POOR FIX, NO WALL CLOUD															26.4N 127.8E	
71	111943Z	26.4N 125.0E	LRDR	- 20 DEGREE SPIRAL OVERLAY, 40 PERCENT WALL CLOUD, CIRC EYE, DIAMETER 20NM															26.4N 127.8E	
72	111500Z	26.7N 124.3E	LRDR	-															26.3N 126.8E	
73	111500Z	26.4N 124.5E	LRDR	- 6////															26.4N 125.3E	
74	111500Z	26.1N 124.2E	LRDR	- 6////															26.8N 125.3E	
75	111610Z	25.8N 124.6E	LRDR	- 10 DEGREE SPIRAL OVERLAY, POOR FIX, 40 PERCENT WC, CIRC EYE, DIAMETER 20NM															26.4N 127.8E	
76	111700Z	26.8N 124.1E	LRDR	- 6////															26.8N 125.3E	
77	111715Z	27.0N 124.2E	LRDR	- 20 DEGREE SPIRAL OVERLAY, POOR FIX															26.4N 127.8E	
78	111800Z	26.9N 124.0E	LRDR	- 6////															26.8N 125.3E	
79	111900Z	27.1N 123.8E	LRDR	- 6////															26.8N 125.3E	
80	112044Z	26.7N 124.1E	P	2 10 700 240 55 180		40	-	-	-	985	295	11	-	-	- -	-				6
81	112100Z	27.2N 123.4E	LRDR	- 6////															26.8N 125.3E	
82	112233Z	27.5N 123.6E	SAT	(IR DATA)						PCN 5 DMSP										
83	112357Z	27.4N 122.8E	SAT	(T3.5/3.5-/S /24HRS)						PCN 3 DMSP										
84	112357Z	27.6N 122.6E	SAT	(T2.5/3.5-/W1.0/24HRS)						PCN 3 DMSP										
85	112357Z	27.8N 123.2E	SAT	(T3.5/3.5-/S /24HRS)						PCN 3 DMSP										
86	120016Z	27.5N 123.0E	SAT	(T4.5/4.5 /01.0/23HRS)						NOAA-4			(CONF 01)							
87	120349Z	27.8N 122.5E	SAT	(T3.5/4.0 /S0.5/24HRS)						PCN 3 DMSP										
88	121105Z	28.3N 120.3E	SAT	(IR DATA)						NOAA-4			(CONF 02)							
89	121117Z	28.1N 120.3E	SAT	(IR DATA)						PCN 4 DMSP										
90	121239Z	28.2N 120.2E	SAT	(IR DATA)						PCN 3 DMSP										
91	121239Z	28.5N 120.0E	SAT	(IR DATA)						PCN 3 DMSP										
92	121239Z	28.1N 120.2E	SAT	(IR DATA)						PCN 3 DMSP										
93	122221Z	29.2N 118.2E	SAT	(IR DATA)						PCN 5 DMSP										
94	122339Z	29.1N 117.7E	SAT	(IR DATA)						PCN 3 DMSP										
95	122339Z	29.1N 117.8E	SAT	(IR DATA)						PCN 3 DMSP										

TYPHOON PHYLLIS
FIX POSITIONS FOR CYCLONE NO. 7
000002 12 AUG TO 120002 18 AUG

FIX NO.	TIME	POSIT	FIX CAT	ACCMY NAV-MET	FIX LVL	FLT LVL WIND DIR	MAX OBS VEL	MAX OBS BRG	MAX OBS RNG	MAX OBS SFC WIND VEL	MAX OBS SFC WIND BRG	MAX OBS SFC WIND RNG	OBS MIN SLP	MIN 700MB HGT	FLT LVL TI/TO	EYE FORM	ORIEN-TATION	EYE DIA	POSIT OF RADAR	MSN NMBR
1	102234Z	14.3N 138.2E	SAT	(T1.0/1.0 / / HRS)						PCN 3 DMSP										
2	102346Z	14.2N 138.2E	SAT	(T1.0/1.0 / / HRS)						PCN 4 DMSP										
3	110948Z	12.5N 137.1E	SAT	(IR DATA)						PCN 5 DMSP										
4	111116Z	12.5N 137.2E	SAT	(IR DATA)						PCN 5 DMSP										
5	111116Z	15.1N 137.2E	SAT	(IR DATA)						PCN 5 DMSP										
6	112357Z	13.1N 136.9E	SAT	(T1.0/1.0 /S /25HRS)						PCN 5 DMSP										
7	112357Z	14.9N 137.8E	SAT	(T1.0/1.0 /S /25HRS)						PCN 5 DMSP										
8	120045Z	12.7N 137.9E	P	5 5 1500 290 30 30		2	30	180	45	992	-	25	25	-	- -	-				1
9	120247Z	12.8N 137.6E	P	5 5 1500 240 30 20		25	35	30	5	986	-	26	24	-	- -	-				1
10	120946Z	13.2N 138.0E	SAT	(IR DATA)						PCN 6 DMSP										
11	121000Z	13.4N 137.5E	P	5 5 700 360 30 270		24	-	-	-	993	302	11	10	-	- -	-				2
12	121102Z	13.7N 136.9E	SAT	(IR DATA)						NOAA-4			(CONF 02)							
13	121239Z	13.3N 136.5E	SAT	(IR DATA)						PCN 5 DMSP										
14	121432Z	13.6N 136.9E	P	5 5 700 130 35 50		15	-	-	-	990	300	14	12	-	- -	-				2
15	122221Z	14.0N 136.2E	SAT	(IR DATA)						PCN 5 DMSP										
16	122339Z	14.2N 136.5E	SAT	(T3.5/3.5+/D2.5/24HRS)						PCN 3 DMSP										
17	122339Z	14.5N 137.5E	SAT	(T2.5/2.5 / / HRS)						PCN 3 DMSP										
18	122339Z	14.6N 136.5E	SAT	(T3.0/3.0+/D2.0/24HRS)						PCN 3 DMSP										
19	130235Z	14.2N 136.5E	P	5 5 700 190 40 80		45	35	80	30	982	293	15	9	ELIP	E-W	20X10				3
20	130331Z	14.5N 136.0E	SAT	(T3.0/3.0 / / HRS)						PCN 3 DMSP										
21	130843Z	15.1N 136.7E	P	5 5 700 180 55 100		30	60	110	20	974	286	16	12	CTHC		30				3
22	130926Z	15.0N 136.2E	SAT	(IR DATA)						PCN 6 DMSP										
23	131157Z	15.1N 136.0E	SAT	(IR DATA)						NOAA-4			(CONF 02)							
24	131220Z	15.4N 135.8E	SAT	(IR DATA)						PCN 5 DMSP										
25	131220Z	15.4N 136.3E	SAT	(IR DATA)						PCN 5 DMSP										
26	131220Z	15.4N 136.8E	SAT	(IR DATA)						PCN 5 DMSP										
27	131559Z	16.1N 136.6E	P	5 5 700 290 80 200		15	-	-	-	964	277	19	13	CTHC		20				*
28	132048Z	16.1N 136.9E	P	10 5 700 180 100 270		15	100	90	10	951	266	17	13	CTHC		20				*
29	132209Z	16.1N 136.8E	SAT	(IR DATA)						PCN 1 DMSP										
30	132209Z	16.1N 137.2E	SAT	(IR DATA)						PCN 1 DMSP										
31	132209Z	16.1N 137.2E	SAT	(IR DATA)						PCN 1 DMSP										
32	132320Z	16.1N 136.9E	SAT	(T5.5/5.5+/D2.0/24HRS)						PCN 1 DMSP										
33	132320Z	16.5N 136.9E	SAT	(T4.5/4.5+/D2.0/24HRS)						PCN 1 DMSP										

TYPHOON PHYLLIS
FIX POSITIONS FOR CYCLONE NO. 7
0000Z 12 AUG TO 1200Z 18 AUG

FIX NO.	TIME	POSIT	FIX CAT	ACCMY NAV-MET	FIX LVL	MAX OBS FLT LVL WIND DIR	VEL	RAD	RNG	MAX OBS SFC WIND VEL	RAD	RNG	OBS MIN SLP	MIN 700MB HGT	FLT LVL TI/TO	EYE FORM	ORIENTATION	EYE DIA	POSIT OF RADAR	MSN NMBR
34	1323Z	18.4N 136.9E	SAT	(15.0/5.0 /D2.0/24HRS)						PCN 1 DMSP										
35	1400Z	18.4N 136.4E	SAT	(T4.5/4.5 /D2.0/25HRS)						NOAA-4			(CONF 01)							
36	1412Z	19.6N 137.2E	SAT	(T4.5/4.5 /D1.5/24HRS)						PCN 2 DMSP										
37	1445Z	21.6N 137.0E	P	5 3 700	210	125	120	20	60	170	65	V31	249	17 13	CTHC		20			5
38	1515Z	22.1N 136.7E	SAT	(IR DATA			)	PCN 2 DMSP												
39	1515Z	21.8N 136.6E	SAT	(IR DATA			)	PCN 1 DMSP												
40	1515Z	21.2N 137.3E	SAT	(IR DATA			)	PCN 2 DMSP												
41	1515Z	22.9N 136.7E	SAT	(IR DATA			)	NOAA-4					(CONF 02)							
42	1612Z	22.1N 136.8E	SAT	(IR DATA			)	PCN 1 DMSP												
43	1612Z	22.1N 137.1E	SAT	(IR DATA			)	PCN 1 DMSP												
44	1612Z	22.3N 137.0E	SAT	(IR DATA			)	PCN 1 DMSP												
45	1645Z	23.2N 137.0E	P	5 5 700	330	90	250	14	-	-	-	V20	239	20 16	CTHC		15			5
46	1423Z	25.3N 137.1E	P	5 3 700	270	115	180	25	100	180	25	V31	247	17 15	CTHC		20			6
47	1436Z	25.3N 137.1E	SAT	(IR DATA			)	PCN 1 DMSP												
48	1457Z	25.3N 137.1E	SAT	(IR DATA			)	PCN 1 DMSP												
49	1457Z	25.3N 137.1E	SAT	(IR DATA			)	PCN 1 DMSP												
50	1423Z	25.6N 137.1E	SAT	(T6.5/6.5 /D1.0/24HRS)						PCN 1 DMSP										
51	1423Z	25.5N 137.2E	SAT	(T6.0/6.0-/D1.5/24HRS)						PCN 1 DMSP										
52	1423Z	25.5N 137.1E	SAT	(T6.5/6.5 /D1.5/24HRS)						PCN 1 DMSP										
53	1421Z	25.6N 137.0E	SAT	(T6.0/6.0 /D1.5/23HRS)						NOAA-4			(CONF 01)							
54	1502Z	27.5N 137.4E	SAT	(T5.5/5.5 /D1.5/24HRS)						PCN 2 DMSP										
55	1502Z	26.6N 137.0E	P	5 5 700	30	75	300	25	80	330	15	V34	251	17 14	CTHC		20			6
56	1513Z	28.1N 135.8E	SAT	(IR DATA			)	PCN 2 DMSP												
57	1513Z	28.2N 136.0E	SAT	(IR DATA			)	PCN 1 DMSP												
58	1513Z	28.3N 135.7E	SAT	(IR DATA			)	PCN 1 DMSP												
59	1513Z	28.3N 135.8E	SAT	(IR DATA			)	PCN 1 DMSP												
60	1513Z	28.3N 136.0E	SAT	(IR DATA			)	PCN 1 DMSP												
61	1513Z	28.3N 135.6E	SAT	(IR DATA			)	PCN 1 DMSP												
62	1513Z	28.5N 135.5E	SAT	(IR DATA			)	NOAA-4					(CONF 01)							
63	1513Z	28.8N 135.3E	P	5 2 700	60	90	340	30	-	-	-	V39	256	15 14	CTHC		18			7
64	1520Z	29.3N 134.7E	P	10 5 700	240	70	140	30	80	130	8	V43	259	17 14	CTHC		15			8
65	1521Z	29.4N 134.6E	SAT	(IR DATA			)	PCN 1 DMSP												
66	1521Z	29.4N 134.7E	SAT	(IR DATA			)	PCN 1 DMSP												
67	1522Z	29.4N 134.6E	SAT	(T5.0/6.0-/W1.5/24HRS)						PCN 1 DMSP										
68	1522Z	29.4N 134.7E	SAT	(T5.0/6.0 /W1.0/24HRS)						PCN 1 DMSP										
69	1522Z	29.4N 134.5E	SAT	(T5.0/6.0-/W1.5/24HRS)						PCN 1 DMSP										
70	1600Z	29.4N 134.2E	SAT	(T5.0/6.0-/W1.0/24HRS)						NOAA-4			(CONF 01)							
71	1600Z	29.7N 134.4E	LRDR	- 22913															30.6N 131.0E	
72	1600Z	29.7N 134.3E	LRDR	- 20913															30.6N 131.0E	
73	1603Z	29.8N 134.2E	P	5 5 700	280	100	180	45	80	180	50	V45	261	17 14	CTHC		30			9
74	1604Z	29.8N 134.3E	LRDR	- 20913															30.6N 131.0E	
75	1605Z	29.9N 134.3E	LRDR	- 10913															30.6N 131.0E	
76	1606Z	30.0N 134.3E	LRDR	- 10913															30.6N 131.0E	
77	1607Z	30.1N 134.3E	LRDR	- 10913															30.6N 131.0E	
78	1608Z	30.3N 134.0E	P	5 5 700	210	90	120	60	55	140	50	-	-	18 12	CTHC		40			9
79	1609Z	30.5N 134.3E	LRDR	- 22913															30.6N 131.0E	
80	1610Z	30.6N 134.2E	LRDR	- 22913															30.6N 131.0E	
81	1610Z	30.6N 134.0E	SAT	(IR DATA			)	PCN 2 DMSP												
82	1610Z	30.4N 133.8E	SAT	(IR DATA			)	PCN 2 DMSP												
83	1611Z	30.8N 134.1E	LRDR	- 21913															30.6N 131.0E	
84	1611Z	30.9N 133.7E	SAT	(IR DATA			)	PCN 1 DMSP												
85	1611Z	30.8N 133.6E	SAT	(IR DATA			)	PCN 1 DMSP												
86	1611Z	30.3N 133.5E	SAT	(IR DATA			)	PCN 1 DMSP												
87	1612Z	30.9N 133.9E	LRDR	- 10913															30.6N 131.0E	
88	1613Z	31.1N 133.8E	LRDR	- 22913															30.6N 131.0E	
89	1613Z	30.8N 133.7E	SAT	(IR DATA			)	PCN 1 DMSP												
90	1613Z	31.1N 133.8E	SAT	(IR DATA			)	PCN 1 DMSP												
91	1615Z	31.2N 133.5E	LRDR	- 21913															30.6N 131.0E	
92	1615Z	31.4N 133.3E	LRDR	- 22913															30.6N 131.0E	
93	1617Z	31.6N 133.2E	LRDR	- 20913															30.6N 131.0E	
94	1618Z	31.7N 133.1E	LRDR	- 20911															30.6N 131.0E	
95	1619Z	31.7N 133.1E	LRDR	- 20913															33.4N 130.4E	
96	1619Z	31.8N 133.1E	LRDR	- 50913															30.6N 131.0E	
97	1620Z	31.9N 133.0E	LRDR	- 20913															33.4N 130.4E	
98	1620Z	32.0N 133.1E	LRDR	- 51913															30.6N 131.0E	
99	1620Z	32.0N 133.1E	LRDR	- 51913															30.6N 131.0E	
100	1621Z	32.1N 132.9E	LRDR	-															30.6N 131.0E	
101	1621Z	32.2N 132.9E	SAT	(IR DATA			)	PCN 1 DMSP												
102	1621Z	32.1N 132.9E	SAT	(IR DATA			)	PCN 1 DMSP												
103	1621Z	32.2N 132.9E	SAT	(I - 30977															33.4N 130.4E	
104	1622Z	32.3N 132.9E	LRDR	- 20913															30.6N 131.0E	
105	1622Z	32.3N 132.9E	LRDR	-															33.4N 130.4E	
106	1622Z	32.3N 132.9E	SAT	(T4.0/5.0 /W1.0/24HRS)						PCN 1 DMSP										
107	1622Z	32.1N 132.5E	SAT	(I - 20913															30.6N 131.0E	
108	1624Z	32.4N 132.9E	LRDR	- 20927															33.4N 130.4E	
109	1700Z	32.7N 132.8E	LRDR	- 20943															30.6N 131.0E	
110	1700Z	32.8N 132.8E	LRDR	-															30.6N 131.0E	
111	1700Z	32.4N 133.0E	SAT	(T4.0/5.0 /W1.0/25HRS)						PCN 1 DMSP										
112	1700Z	32.4N 132.7E	SAT	(IR DATA			)	NOAA-4					(CONF 02)							
113	1705Z	32.2N 133.1E	SAT	(I - 77777															33.4N 133.1E	
114	1701Z	33.4N 132.4E	LRDR	- 22943															30.6N 131.0E	
115	1701Z	33.0N 132.6E	LRDR	- 50913															33.4N 133.1E	
116	1702Z	33.6N 132.4E	LRDR	- 65777															30.6N 131.0E	
117	1702Z	33.4N 132.8E	LRDR	-															30.6N 131.0E	
118	1703Z	33.4N 132.5E	SAT	(I - POOR FIX																
119	1704Z	33.6N 132.4E	LRDR	- 60973															33.4N 133.1E	
120	1704Z	33.4N 132.3E	LRDR	- POOR FIX															33.1N 138.9E	
121	1704Z	33.8N 132.1E	LRDR	- 20913															33.4N 133.1E	
122	1704Z	33.7N 132.2E	LRDR	- 20913															33.4N 133.1E	
123	1705Z	33.9N 131.9E	LRDR	- 20913															33.4N 133.1E	
124	1706Z	33.8N 131.8E	LRDR	- 35773															33.4N 133.1E	

TYPHOON PHYLLIS
FIX POSITIONS FOR CYCLONE NO. 7
0000Z 12 AUG TO 1200Z 18 AUG

FIX NO.	TIME	POSIT	FIX CAT	ACCRY NAV-MET	FIX LVL	MAX OBS FLT LVL WIND DIR	VEL	BRG	RNG	MAX OBS SFC WIND VEL	BRG	RNG	OBS MIN SLP	MIN 700MB HGT	FLT LVL TI/TO	EYE FORM	ORIENTATION	EYE DIA	POSIT OF RADAR	MSN NMBR
125	1700Z	33.9N 131.7E	LRDR		- 2040Z														34.4N 130.9E	
126	1706Z	34.0N 131.7E	LRDR		- 3577Z														35.4N 136.9E	
127	1706Z	34.1N 131.7E	LRDR		- 3577Z														35.5N 133.1E	
128	1706Z	34.1N 131.7E	LRDR		- 2041Z														34.3N 132.6E	
129	1706Z	34.2N 131.5E	LRDR		- 2035Z														34.4N 130.9E	
130	1706Z	34.1N 131.6E	LRDR		- 3577Z														34.4N 130.9E	
131	1706Z	34.3N 131.4E	LRDR		- 1032Z														35.5N 133.1E	
132	1705Z	34.2N 131.6E	LRDR		- 5577Z														34.3N 132.6E	
133	1710Z	34.6N 131.3E	LRDR		-														34.3M1 132.6E	
134	1710Z	34.5N 131.7E	SAT	(IR DATA	)					NOAA-4			(CONF 01)							
135	1711Z	35.5N 133.0E	SAT	(I - 2477															34.4N 130.9E	
136	1712Z	34.8N 130.9E	LRDR	-															34.4N 130.9E	
137	1712Z	34.9N 130.6E	SAT	(IR DATA	)					PCN 5	DMSP									
138	1712Z	35.1N 131.7E	SAT	(I - 2477															34.4N 130.9E	
139	1715Z	35.0N 130.5E	LRDR	-															34.4N 130.9E	
140	1724Z	36.2N 130.6E	SAT	(T2.0/3.0-/W1.0/24HRS)						PCN 3	DMSP									
141	1724Z	36.2N 130.6E	SAT	(T3.0/4.0 /W1.0/24HRS)						PCN 3	DMSP									
142	1823Z	40.4N 130.6E	SAT	(IR DATA	)					PCN 5	DMSP									

TYPHOON VERA
FIX POSITIONS FOR CYCLONE NO. 8
0600Z 18 AUG TO 1800Z 23 AUG

FIX NO.	TIME	POSIT	FIX CAT	ACCRY NAV-MET	FIX LVL	MAX OBS FLT LVL WIND DIR	VEL	BRG	RNG	MAX OBS SFC WIND VEL	BRG	RNG	OBS MIN SLP	MIN 700MB HGT	FLT LVL TI/TO	EYE FORM	ORIENTATION	EYE DIA	POSIT OF RADAR	MSN NMBR
1	1700Z	23.2N 120.9E	SAT	(T2.0/2.0 /	/ HRS)					PCN 5	DMSP									
2	1715Z	21.0N 121.7E	SAT	(IR DATA	)					PCN 6	DMSP									
3	1715Z	26.3N 124.3E	SAT	(IR DATA	)					PCN 6	DMSP									
4	1724Z	22.5N 126.2E	SAT	(IR DATA	)					PCN 5	DMSP									
5	1724Z	23.1N 125.7E	SAT	(IR DATA	)					PCN 5	DMSP									
6	1721Z	23.9N 129.9E	SAT	(IR DATA	)					PCN 5	DMSP									
7	1724Z	24.5N 130.5E	SAT	(T1.0/2.0 /W1.0/24HRS)						PCN 3	DMSP									
8	1724Z	24.5N 130.2E	SAT	(IR DATA	)					PCN 5	DMSP									
9	1724Z	24.6N 130.6E	SAT	(T1.0/1.0 /	/ HRS)					PCN 3	DMSP									
10	1804Z	25.5N 130.0E	SAT	(IR DATA	)					PCN 5	DMSP									
11	1804Z	24.7N 130.4E	P	5 25 1500	240	55	140	130		45	140	150	991	-	22 25	-	- -	-		1
12	1809Z	24.3N 130.4E	P	10 15 1500	230	40	140	100		40	140	80	993	-	28 -	-	- -	-		2
13	1810Z	24.6N 130.9E	SAT	(IR DATA	)					PCN 5	DMSP									
14	1810Z	23.2N 133.6E	SAT	(IR DATA	)					PCN 6	DMSP									
15	1812Z	25.3N 132.1E	SAT	(IR DATA	)					PCN 3	DMSP									
16	1812Z	25.3N 132.2E	SAT	(IR DATA	)					PCN 3	DMSP									
17	1812Z	25.3N 131.7E	SAT	(IR DATA	)					PCN 3	DMSP									
18	1815Z	24.2N 131.0E	P	5 5 1500	180	30	90	60		-	-	-	991	-	25 25	EYE	N-S	50X35		3
19	1821Z	25.1N 130.9E	SAT	(IR DATA	)					PCN 6	DMSP									
20	1821Z	25.2N 131.2E	SAT	(IR DATA	)					PCN 6	DMSP									
21	1821Z	25.2N 131.3E	SAT	(IR DATA	)					PCN 6	DMSP									
22	1821Z	25.9N 130.7E	P	5 5 1500	150	55	60	50		35	120	40	992	-	25 23	-	- -	-		3
23	1824Z	25.9N 130.2E	SAT	(T2.0/2.0 /D1.0/24HRS)						PCN 3	DMSP									
24	1824Z	25.9N 130.1E	SAT	(T1.0/1.0 /D1.0/24HRS)						PCN 3	DMSP									
25	1824Z	25.9N 130.2E	SAT	(T2.0/2.0 /D1.0/24HRS)						PCN 3	DMSP									
26	1903Z	26.2N 130.2E	SAT	(T1.5/1.5 /	/ HRS)					PCN 3	DMSP									
27	1908Z	25.7N 130.2E	P	2 5 700	170	45	50	30		35	50	30	985	295	15 15	-	- -	-		4
28	1910Z	26.7N 129.5E	LRDR	- 6////															26.1N 127.8E	
29	1911Z	26.3N 129.3E	LRDR	- 6////															26.1N 127.8E	
30	1911Z	26.8N 129.7E	SAT	(IR DATA	)					PCN 3	DMSP									
31	1911Z	26.0N 130.0E	SAT	(IR DATA	)					PCN 3	DMSP									
32	1912Z	26.8N 129.5E	SAT	(IR DATA	)					PCN 3	DMSP									
33	1912Z	26.8N 129.7E	SAT	(IR DATA	)					PCN 3	DMSP									
34	1912Z	26.9N 129.6E	SAT	(IR DATA	)					PCN 3	DMSP									
35	1915Z	26.0N 129.3E	P	5 15 700	120	40	30	90		-	-	-	991	301	15 15	-	- -	-		5
36	1915Z	26.7N 128.9E	LRDR	- 2570/						PCN 3	DMSP								26.1N 127.8E	
37	1916Z	26.4N 128.7E	LRDR	- 6////															26.1N 127.8E	
38	1920Z	26.5N 129.3E	P	5 5 700	120	40	360	120		35	210	10	987	298	18 15	-	- -	-		5
39	1920Z	26.3N 128.7E	LRDR	- POOR FIX, NO EYE WALL, 10 DEG SPIRAL OVERLAY															26.4N 127.8E	
40	1921Z	26.3N 128.4E	LRDR	- FAIR FIX, CIRCULAR EYE 30 NM DIAM, 50 PERCENT WALL CLOUD, 15 DEG SPOV															26.4N 127.8E	
41	1921Z	26.3N 128.8E	LRDR	- FAIR FIX, CIRCULAR EYE 10 NM DIAM, 40 PERCENT WALL CLOUD, 10 DEG SPOV															26.4N 127.8E	
42	1922Z	26.4N 129.0E	SAT	(IR DATA	)					PCN 5	DMSP									
43	1922Z	26.7N 128.4E	SAT	(T3.0/3.0 /D1.0/24HRS)						PCN 5	DMSP									
44	1923Z	26.9N 128.9E	SAT	(T3.0/3.0 /D1.0/24HRS)						PCN 3	DMSP									
45	1923Z	26.4N 128.9E	SAT	(T2.0/2.0 /D1.0/24HRS)						PCN 3	DMSP									
46	1923Z	27.4N 129.0E	SAT	(IR DATA	)					PCN 3	DMSP									
47	1923Z	26.2N 128.5E	SAT	(T3.5/3.5 /D1.0/23HRS)						NOAA-4			(CONF 01)							
48	2004Z	27.5N 129.1E	SAT	(T2.5/2.5-/D1.0/24HRS)						PCN 3	DMSP									
49	2003Z	26.9N 128.5E	P	1 2 700	270	40	230	25		25	230	20	991	301	16 14	-	- -	-		6
50	2003Z	26.8N 128.1E	LRDR	- POOR FIX, NO WALL CLOUD, 15 DEG SPIRAL OVERLAY															26.4N 127.8E	
51	2004Z	26.9N 128.3E	LRDR	- 15 DEGREE SPIRAL OVERLAY, POOR FIX, NO WALL CLOUD															26.4N 127.8E	
52	2005Z	26.6N 128.3E	LRDR	- 10 DEGREE SPIRAL OVERLAY, POOR FIX, NO WALL CLOUD															26.4N 127.8E	
53	2007Z	27.0N 128.1E	LRDR	- 10 DEGREE SPIRAL OVERLAY, POOR FIX, NO WALL CLOUD															26.4N 127.8E	
54	2008Z	26.8N 128.8E	P	5 10 700	360	40	270	15		45	220	60	986	297	19 17	-	- -	-		6
55	2011Z	26.8N 128.9E	SAT	(IR DATA	)					PCN 5	DMSP									
56	2011Z	27.1N 129.9E	SAT	(IR DATA	)					PCN 5	DMSP									
57	2011Z	27.0N 128.5E	SAT	(IR DATA	)					PCN 3	DMSP									
58	2011Z	26.9N 128.9E	SAT	(IR DATA	)					PCN 5	DMSP									
59	2011Z	27.0N 128.6E	SAT	(IR DATA	)					PCN 3	DMSP									

TYPHOON OLIVIA
FIX POSITIONS FOR CYCLONE NO. 8
0600Z 18 AUG TO 1800Z 23 AUG

FIX NO.	TIME	POSITION	FIX CAT	ACCMY NAV-MET	FIX LVL	MAX OBS FLT LVL WIND DIR	VEL	RAD	RNG	MAX OBS SFC WIND VEL	RAD	RNG	OBS MIN SLP	MIN 700MB HGT	FLT LVL T/TD	EYE FORM	ORIENTATION	EYE DIA	POSIT OF RADAR	MSN NMBR
60	2018Z	27.1N 130.7E	LRDR	- /////1															28.4N 129.5E	
61	2018Z	27.4N 130.7E	LRDR	- /////1															28.4N 129.5E	
62	2024Z	27.3N 130.8E	LRDR	- /////1															28.4N 129.5E	
63	2021Z	28.2N 131.1E	P - 10	700	330	60	250	30	40	250	40	976	286	9	15	CTHC		10		7
64	2024Z	27.9N 131.2E	LRDR	- /////1															28.4N 129.5E	
65	2022Z	28.0N 131.2E	SAT	(T3.5/3.5 /D0.5/23HRS)				PCN 1	DMSP											
66	2022Z	28.1N 131.5E	SAT	(IR DATA)				PCN 3	DMSP											
67	2022Z	28.3N 131.3E	SAT	(IR DATA)				PCN 1	DMSP											
68	2023Z	28.1N 131.3E	SAT	(IR DATA)				PCN 1	DMSP											
69	2023Z	28.1N 131.0E	SAT	(T3.5/3.5+/D1.5/24HRS)				PCN 1	DMSP											
70	2023Z	28.1N 131.2E	SAT	(T4.0/4.0-/D1.0/24HRS)				PCN 1	DMSP											
71	2024Z	28.0N 131.2E	LRDR	- 6////															28.4N 129.5E	
72	2101Z	28.3N 131.6E	LRDR	- 55///															28.4N 129.5E	
73	2102Z	28.5N 131.8E	LRDR	- 55///															28.4N 129.5E	
74	2103Z	28.3N 131.5E	P - 1	700	200	70	140	30	60	140	35	973	285	15	13	CTHC		5		7
75	2104Z	28.4N 131.7E	SAT	(T3.5/3.5 /D1.0/24HRS)				PCN 3	DMSP											
76	2105Z	28.7N 131.6E	LRDR	- 65///															28.4N 129.5E	
77	2105Z	28.4N 131.5E	LRDR	- 5////															30.6N 131.0E	
78	2105Z	28.9N 131.5E	LRDR	- 6////															28.4N 129.5E	
79	2105Z	29.1N 131.5E	LRDR	- 6////															28.4N 129.5E	
80	2105Z	28.9N 131.7E	LRDR	- 6////															30.6N 131.0E	
81	2106Z	28.9N 131.8E	LRDR	- 55///															30.6N 131.0E	
82	2107Z	28.8N 132.0E	LRDR	- 5////															30.6N 131.0E	
83	2107Z	29.3N 132.0E	LRDR	- 6////															28.4N 129.5E	
84	2108Z	29.1N 132.1E	LRDR	- 5////															30.6N 131.0E	
85	2109Z	29.3N 132.2E	LRDR	- 5////															30.6N 131.0E	
86	2109Z	29.3N 132.1E	LRDR	- 6////															28.4N 129.5E	
87	2111Z	29.4N 132.3E	LRDR	- 6////															30.6N 131.0E	
88	2111Z	29.5N 132.3E	LRDR	- 5////															28.4N 129.5E	
89	2111Z	29.6N 132.0E	SAT	(IR DATA)				PCN 2	DMSP											
90	2111Z	29.4N 131.9E	SAT	(IR DATA)				PCN 1	DMSP											
91	2113Z	29.4N 131.8E	SAT	(IR DATA)				PCN 1	DMSP											
92	2113Z	29.4N 132.0E	SAT	(IR DATA)				PCN 1	DMSP											
93	2113Z	29.4N 131.8E	SAT	(IR DATA)				PCN 1	DMSP											
94	2112Z	29.5N 132.4E	LRDR	- 5////															28.4N 129.5E	
95	2112Z	29.4N 132.4E	LRDR	- 6////															30.6N 131.0E	
96	2112Z	30.1N 133.3E	SAT	(IR DATA)				PCN 1	DMSP											
97	2113Z	29.6N 132.4E	LRDR	- 5////															28.4N 129.5E	
98	2113Z	29.4N 132.4E	LRDR	- 6////															30.6N 131.0E	
99	2113Z	29.9N 132.7E	SAT	(IR DATA)				PCN 1	DMSP											
100	2114Z	29.6N 132.5E	LRDR	- GOOD FIX																
101	2114Z	29.5N 132.3E	LRDR	- 5////															30.6N 131.0E	
102	2114Z	29.6N 132.4E	LRDR	- 6////															28.4N 129.5E	
103	2115Z	29.5N 132.5E	LRDR	- GOOD FIX																
104	2115Z	29.7N 132.5E	LRDR	- 5////															30.6N 131.0E	
105	2115Z	29.8N 132.7E	P 5	4 700	320	60	240	55	65	230	60	972	284	18	14	CTHC		40		8
106	2116Z	29.8N 132.6E	LRDR	- GOOD FIX																
107	2116Z	29.7N 132.6E	LRDR	- 5////															30.6N 131.0E	
108	2116Z	29.6N 132.5E	LRDR	- /////2															28.4N 129.5E	
109	2117Z	30.0N 132.7E	LRDR	- POOR FIX																
110	2117Z	29.9N 132.7E	LRDR	- 5////															30.6N 131.0E	
111	2117Z	29.7N 132.7E	LRDR	- /////2															28.4N 129.5E	
112	2114Z	29.8N 132.7E	LRDR	- /////2															30.6N 131.0E	
113	2118Z	29.8N 132.8E	LRDR	- 5////															28.4N 129.5E	
114	2119Z	30.0N 132.9E	LRDR	- POOR FIX																
115	2119Z	30.0N 132.8E	LRDR	- 5////															30.6N 131.0E	
116	2119Z	29.9N 132.9E	LRDR	- /////2															28.4N 129.5E	
117	2120Z	30.0N 132.9E	LRDR	- GOOD FIX																
118	2120Z	30.1N 133.0E	LRDR	- 5////															28.4N 129.5E	
119	2120Z	30.4N 133.1E	LRDR	- /////1															30.6N 131.0E	
120	2120Z	30.3N 133.0E	P 5	2 700	130	80	40	65	-	-	-	970	283	18	14	CTHC		40		8
121	2121Z	30.2N 133.0E	LRDR	- GOOD FIX																
122	2121Z	30.1N 133.1E	LRDR	- 5////															30.6N 131.0E	
123	2121Z	30.2N 133.0E	LRDR	- /////1															28.4N 129.5E	
124	2122Z	30.5N 133.2E	LRDR	- 5////															28.4N 129.5E	
125	2122Z	30.4N 133.1E	LRDR	-															30.6N 131.0E	
126	2122Z	30.4N 133.2E	SAT	(T3.5/3.5-/S /24HRS)				PCN 1	DMSP											
127	2123Z	30.4N 133.2E	SAT	(IR DATA)				PCN 1	DMSP											
128	2123Z	30.4N 133.4E	SAT	(T4.5/4.5-/D1.0/24HRS)				PCN 1	DMSP											
129	2123Z	30.1N 133.1E	SAT	(T4.5/4.5 /D0.5/23HRS)				PCN 1	DMSP											
130	2123Z	30.4N 133.3E	LRDR	- 5////															30.6N 131.0E	
131	2124Z	30.6N 133.2E	LRDR	- 7////															28.4N 129.5E	
132	2200Z	30.7N 133.4E	LRDR	- 5////															30.6N 131.0E	
133	2200Z	30.6N 133.4E	SAT	(IR DATA)				PCN 1	DMSP											
134	2201Z	30.7N 133.5E	LRDR	- 5////															30.6N 131.0E	
135	2201Z	30.7N 133.2E	LRDR	- 5//11															33.3N 134.2E	
136	2202Z	30.8N 133.6E	LRDR	- 5////															30.6N 131.0E	
137	2202Z	30.9N 133.2E	SAT	(T4.5/4.5-/D1.0/24HRS)				PCN 1	DMSP											
138	2203Z	31.2N 133.7E	LRDR	- 5////															30.6N 131.0E	
139	2203Z	31.2N 133.5E	LRDR	- 20872															33.3N 134.2E	
140	2204Z	31.3N 133.5E	P 5	10 700	330	52	250	45	50	230	45	986	280	16	13	CTHC		60		9
141	2204Z	31.4N 133.7E	LRDR	- 5////															33.3N 134.2E	
142	2204Z	31.3N 133.8E	LRDR	- 21972															30.6N 131.0E	
143	2205Z	31.6N 133.8E	LRDR	- 6////															33.3N 134.2E	
144	2205Z	31.5N 133.9E	LRDR	- 21932															30.6N 131.0E	
145	2206Z	31.7N 134.1E	LRDR	- 6////															30.6N 131.0E	
146	2207Z	31.9N 134.0E	LRDR	- 21912															33.3N 134.2E	
147	2208Z	32.3N 134.2E	LRDR	- 21912															30.6N 131.0E	
148	2208Z	32.1N 134.1E	LRDR	- 6////															33.3N 134.2E	
149	2208Z	32.4N 134.0E	P 5	5 700	250	65	150	50	-	-	-	987	281	15	13	CTHC		60		9
150	2209Z	32.3N 134.4E	LRDR	- 60///															30.6N 131.0E	

TYPHOON PITA
FIX POSITIONS FOR CYCLONE NO. 8
0600Z 18 AUG TO 1800Z 23 AUG

FIX NO.	TIME	POSIT	FIX CAT	ACCRY NAV-MET	FIX LVL	FLT LVL WIND DIR VEL	MAX OBS WIND RNG	MAX OBS SFC WIND VEL	MAX OBS WIND DIR RNG	OBS MIN SLP	MIN 700MB HGT	FLT LVL TI/TO	EYE FORM	ORIENTATION	EYE DIA	POSIT OF RADAR	MSN NMHR
151	2204002	32.1N 134.2E	LRDR	- 20412												33.3N 134.2E	
152	2210002	32.4N 134.5E	LRDR	- 21412												30.6N 131.0E	
153	2213002	32.5N 134.3E	LRDR	- 67772												33.3N 134.2E	
154	2210432	33.0N 133.8E	SAT	(IR DATA	)			NOAA-6		(CONF 01)							
155	2210582	32.7N 134.4E	SAT	(IR DATA	)			PCN 1 DMSP									
156	2210582	32.6N 134.5E	SAT	(IR DATA	)			PCN 1 DMSP									
157	2211002	32.7N 134.3E	LRDR	- 21412												33.3N 134.2E	
158	2212002	32.9N 134.4E	LRDR	- 21412												35.3N 138.7E	
159	2212002	33.0N 134.3E	LRDR	- 20412												33.3N 134.2E	
160	2212582	32.6N 134.5E	SAT	(IR DATA	)			PCN 1 DMSP									
161	2212582	32.8N 134.6E	SAT	(IR DATA	)			PCN 1 DMSP									
162	2213002	33.1N 134.5E	LRDR	- 20412												35.3N 138.7E	
163	2213002	33.1N 134.4E	LRDR	- 53617												33.3N 134.2E	
164	2214002	33.4N 134.5E	LRDR	- 50216												33.3N 134.2E	
165	2214002	33.4N 134.5E	LRDR	- 20412												35.2N 138.7E	
166	2215002	33.5N 134.5E	LRDR	- 21415												33.3N 134.2E	
167	2215002	33.6N 134.5E	LRDR	- 20412												35.3N 138.7E	
168	2215002	33.6N 134.7E	LRDR	- 67701												36.3N 132.0E	
169	2215002	33.7N 134.5E	LRDR	- 50470												33.3N 134.2E	
170	2216002	33.8N 134.5E	LRDR	- 67751												35.5N 133.1E	
171	2216002	33.9N 134.8E	LRDR	- 22951												36.3N 132.0E	
172	2217002	33.9N 134.6E	LRDR	- 35441												33.3N 134.2E	
173	2217002	34.1N 134.8E	LRDR	- 65913												35.5N 133.1E	
174	2217002	34.2N 134.7E	LRDR	- 67743												36.3N 132.0E	
175	2217002	33.9N 134.7E	LRDR	- 12722												35.3N 138.7E	
176	2218002	34.1N 134.6E	LRDR	- 21623												35.3N 138.7E	
177	2218002	34.2N 134.7E	LRDR	- 65931												35.5N 133.1E	
178	2218002	34.2N 134.8E	LRDR	- 35441												33.3N 134.2E	
179	2219002	34.4N 134.9E	LRDR	- 65923												35.5N 133.1E	
180	2220002	34.3N 135.1E	LRDR	- 30573												35.3N 138.7E	
181	2222162	35.0N 135.9E	SAT	(IR DATA	)			PCN 5 DMSP									
182	2222172	35.0N 136.1E	SAT	(IR DATA	)			PCN 5 DMSP									
183	2302062	36.2N 136.5E	SAT	(T2.5/3.5-/W1.0/24HRS)				PCN 3 DMSP									
184	2304002	37.2N 136.6E	LRDR	- 25307												35.3N 138.7E	
185	2305002	37.5N 137.2E	LRDR	- 35257												35.3N 138.7E	
186	2306202	38.0N 138.2E	LRDR	- 09077												35.3N 138.7E	
187	2312402	38.9N 142.1E	SAT	(IR DATA	)			PCN 1 DMSP									
188	2312402	38.5N 142.0E	SAT	(IR DATA	)			PCN 5 DMSP									

TROPICAL STORM SUSAN
FIX POSITIONS FOR CYCLONE NO. 9
1200Z 26 AUG TO 0600Z 01 SEP

FIX NO.	TIME	POSIT	FIX CAT	ACCRY NAV-MET	FIX LVL	FLT LVL WIND DIR VEL	MAX OBS WIND RNG	MAX OBS SFC WIND VEL	MAX OBS WIND DIR RNG	OBS MIN SLP	MIN 700MB HGT	FLT LVL TI/TO	EYE FORM	ORIENTATION	EYE DIA	POSIT OF RADAR	MSN NMHR
1	2122352	22.3N 158.6E	SAT	(IR DATA	)			PCN 5 DMSP									
2	2222162	21.0N 156.5E	SAT	(IR DATA	)			PCN 3 DMSP									
3	2321582	21.6N 154.6E	SAT	(IR DATA	)			PCN 3 DMSP									
4	2421392	23.2N 153.5E	SAT	(IR DATA	)			PCN 3 DMSP									
5	2521222	25.0N 153.5E	SAT	(T1.0/1.0 / / HRS)				PCN 5 DMSP									
6	2523032	25.1N 153.4E	SAT	(IR DATA	)			PCN 5 DMSP									
7	2608292	25.1N 153.2E	SAT	(IR DATA	)			PCN 6 DMSP									
8	2610102	26.0N 153.5E	SAT	(IR DATA	)			PCN 5 DMSP									
9	2611452	25.8N 153.5E	SAT	(IR DATA	)			PCN 5 DMSP									
10	2621132	27.7N 152.9E	SAT	(T1.0/1.0 /S /24HRS)				PCN 3 DMSP									
11	2621132	27.8N 153.1E	SAT	(IR DATA	)			PCN 3 DMSP									
12	2622452	27.7N 152.8E	SAT	(T1.0/1.0 / / HRS)				PCN 3 DMSP									
13	2622452	27.7N 152.9E	SAT	(T2.0/2.0 / / HRS)				PCN 3 DMSP									
14	2702332	28.8N 150.4E	SAT	(IR DATA	)			PCN 6 DMSP									
15	2709322	30.0N 152.0E	SAT	(IR DATA	)			NOAA-6		(CONF 01)							
16	2709592	30.4N 151.9E	SAT	(IR DATA	)			PCN 3 DMSP									
17	2709592	30.4N 152.4E	SAT	(IR DATA	)			PCN 5 DMSP									
18	2711262	30.5N 151.8E	SAT	(IR DATA	)			PCN 3 DMSP									
19	2711262	30.5N 152.1E	SAT	(IR DATA	)			PCN 3 DMSP									
20	2711272	30.3N 152.2E	SAT	(IR DATA	)			PCN 3 DMSP									
21	2721012	31.9N 152.0E	SAT	(IR DATA	)			PCN 3 DMSP									
22	2721012	32.1N 152.5E	SAT	(IR DATA	)			PCN 4 DMSP									
23	2722262	32.1N 151.6E	SAT	(T2.5/2.5 /01.5/23HRS)				PCN 3 DMSP									
24	2805462	33.4N 151.6E	SAT	(IR DATA	)			PCN 1 DMSP									
25	2811292	33.8N 151.2E	SAT	(IR DATA	)			NOAA-6		(CONF 01)							
26	2811082	33.6N 151.8E	SAT	(IR DATA	)			PCN 3 DMSP									
27	2820492	34.5N 152.4E	SAT	(IR DATA	)			PCN 3 DMSP									
28	2822082	34.7N 152.5E	SAT	(T2.5/2.5 /S /24HRS)				PCN 1 DMSP									
29	2822342	39.5N 152.6E	SAT	(T3.5/3.5 /01.0/23HRS)				NOAA-6		(CONF 02)							
30	2901562	35.4N 154.6E	SAT	(IR DATA	)			PCN 1 DMSP									
31	2904292	36.3N 154.5E	SAT	(IR DATA	)			NOAA-6		(CONF 01)							
32	2904342	36.2N 154.7E	SAT	(IR DATA	)			PCN 4 DMSP									
33	2904342	36.1N 154.5E	SAT	(IR DATA	)			PCN 4 DMSP									
34	2910252	37.5N 158.6E	SAT	(IR DATA	)			NOAA-6		(CONF 01)							
35	2910492	36.1N 154.9E	SAT	(IR DATA	)			PCN 1 DMSP									
36	2910502	36.2N 154.9E	SAT	(IR DATA	)			PCN 2 DMSP									
37	2921372	37.1N 156.4E	SAT	(IR DATA	)			PCN 3 DMSP									
38	2921472	36.9N 156.7E	SAT	(IR DATA	)			PCN 3 DMSP									
39	2921502	36.7N 156.7E	SAT	(T2.0/2.5-/S /24HRS)				PCN 3 DMSP									

TROPICAL STORM SUSAN
FIX POSITIONS FOR CYCLONE NO. 9
1200Z 26 AUG TO 0600Z 01 SEP

FIX NO.	TIME	POSIT	FIX CAT	ACCMY NAV-MET	FIX LVL	MAX OBS FLT LVL WIND DIR VEL	MAX OBS SFC WIND BRG RNG	OBS MIN SLP	MIN 700MB HGT	FLT LVL TI/TO	EYE FORM	ORIENTATION	EYE DIA	POSIT OF RADAR	MSN NMBR
40	260/1200Z	36.5N 157.0E	SAT	/T3.0/3.0 / / MHS)			PCN 1 DMSP								
41	260/1627Z	36.5N 156.5E	SAT	/T4.5/4.5 /D1.0/25HRS)			NOAA-4	(CONF 01)							
42	300/1137Z	37.1N 157.3E	SAT	/T3.5/3.5 / / MHS)			PCN 2 DMSP								
43	300/1722Z	37.1N 158.5E	SAT	/IR DATA)			PCN 2 DMSP								
44	300/2222Z	37.1N 158.6E	SAT	/IR DATA)			PCN 2 DMSP								
45	301/0227Z	37.1N 158.9E	SAT	/IR DATA)			PCN 2 DMSP								
46	301/0734Z	37.6N 158.9E	SAT	/IR DATA)			PCN 3 DMSP								
47	301/1254Z	37.1N 159.5E	SAT	/IR DATA)			PCN 3 DMSP								
48	301/1752Z	37.8N 159.2E	SAT	/T2.0/2.0-/ / MHS)			PCN 3 DMSP								
49	301/2317Z	37.9N 159.0E	SAT	/T2.0/2.0-/S /24HRS)			PCN 4 DMSP								
50	302/0512Z	37.6N 158.9E	SAT	/T2.0/3.0 /W1.0/24HRS)			PCN 3 DMSP								
51	302/0727Z	37.2N 158.9E	SAT	/T3.5/4.5 /W1.0/23HRS)			NOAA-4	(CONF 01)							
52	310/1142Z	36.4N 158.7E	SAT	/T2.0/3.0 /W0.5/24HRS)			PCN 4 DMSP								
53	310/1612Z	36.9N 158.9E	SAT	/IR DATA)			PCN 3 DMSP								
54	310/1812Z	36.4N 159.0E	SAT	/IR DATA)			NOAA-4	(CONF 02)							
55	310/2052Z	36.4N 158.2E	SAT	/IR DATA)			NOAA-4	(CONF 01)							
56	311/1132Z	36.8N 159.0E	SAT	/IR DATA)			PCN 4 DMSP								
57	312/1132Z	36.6N 158.0E	SAT	/T2.5/2.5-/D0.5/24HRS)			PCN 4 DMSP								
58	312/1732Z	36.6N 157.2E	SAT	/T2.0/2.0 /S /24HRS)			PCN 3 DMSP								
59	312/2222Z	36.5N 156.9E	SAT	/IR DATA)			NOAA-4	(CONF 01)							
60	010/1002Z	40.3N 157.6E	SAT	/T 4.5/4.5 /W1.5/24HRS)			PCN 4 DMSP								
61	011/1620Z	40.1N 156.5E	SAT	/IR DATA)			NOAA-4	(CONF 02)							
62	012/1902Z	41.1N 156.6E	SAT	/IR DATA)			PCN 5 DMSP								

TYPHOON TESS
FIX POSITIONS FOR CYCLONE NO. 10
0000Z 02 SEP TO 0000Z 10 SEP

FIX NO.	TIME	POSIT	FIX CAT	ACCMY NAV-MET	FIX LVL	MAX OBS FLT LVL WIND DIR VEL	MAX OBS SFC WIND BRG RNG	OBS MIN SLP	MIN 700MB HGT	FLT LVL TI/TO	EYE FORM	ORIENTATION	EYE DIA	POSIT OF RADAR	MSN NMBR
1	310/1002Z	17.6N 156.0E	SAT	/IR DATA)			PCN 6 DMSP								
2	312/1352Z	16.1N 154.0E	SAT	/T1.5/1.5 /D0.5/24HRS)			NOAA-4	(CONF 02)							
3	312/1942Z	16.3N 154.0E	SAT	/T3.5/3.5 / / MHS)			PCN 5 DMSP								
4	312/2042Z	16.5N 154.8E	SAT	/IR DATA)			PCN 6 DMSP								
5	312/2412Z	16.4N 156.4E	SAT	/T1.0/1.0 / / MHS)			PCN 6 DMSP								
6	010/1002Z	17.1N 152.2E	SAT	/T1.5/1.5 / / MHS)			PCN 6 DMSP								
7	010/1558Z	16.6N 151.8E	SAT	/IR DATA)			PCN 3 DMSP								
8	011/0058Z	16.6N 152.1E	SAT	/IR DATA)			PCN 6 DMSP								
9	011/0132Z	17.2N 151.4E	SAT	/IR DATA)			NOAA-4	(CONF 01)							
10	011/1302Z	17.3N 151.6E	SAT	/IR DATA)			PCN 5 DMSP								
11	011/1452Z	17.4N 151.6E	SAT	/IR DATA)			PCN 5 DMSP								
12	011/1702Z	17.3N 151.5E	SAT	/IR DATA)			PCN 6 DMSP								
13	012/0012Z	17.3N 151.6E	SAT	/IR DATA)			PCN 5 DMSP								
14	012/0052Z	17.3N 150.6E	P	2 2 1500 30 30 270	45	90 270	70 997 -	26 24	-	- -	-				1
15	012/0752Z	17.5N 151.0E	SAT	/T2.5/2.5 /D1.0/25HRS)			NOAA-4	(CONF 01)							
16	012/1352Z	18.1N 151.2E	SAT	/T2.0/2.0 /D1.0/23HRS)			PCN 5 DMSP								
17	012/1952Z	18.1N 150.5E	SAT	/T4.0/4.0 /D0.5/24HRS)			PCN 3 DMSP								
18	012/2352Z	17.6N 150.2E	SAT	/T2.5/2.5 / / MHS)			PCN 3 DMSP								
19	020/0532Z	18.1N 150.2E	SAT	/T3.0/3.0 /D1.5/24HRS)			PCN 4 DMSP								
20	020/1052Z	18.1N 150.6E	SAT	/IR DATA)			PCN 6 DMSP								
21	021/1002Z	18.6N 150.0E	SAT	/IR DATA)			NOAA-4	(CONF 02)							
22	021/1182Z	19.4N 150.8E	SAT	/IR DATA)			PCN 6 DMSP								
23	021/1182Z	19.1N 150.0E	SAT	/IR DATA)			PCN 3 DMSP								
24	021/1182Z	19.6N 149.6E	SAT	/IR DATA)			PCN 6 DMSP								
25	021/1552Z	19.4N 150.3E	P	15 5 700 350 55 240	30	- -	- 989	299	16 16	-	- -	-			2
26	021/2052Z	19.7N 149.0E	P	10 5 700 70 50 340	30	- -	- 992	301	14 9	-	- -	-			2
27	022/1312Z	19.1N 149.0E	SAT	/IR DATA)			PCN 6 DMSP								
28	022/1412Z	19.2N 148.5E	SAT	/IR DATA)			PCN 5 DMSP								
29	022/1852Z	19.3N 149.6E	SAT	/T3.5/3.5 /D1.5/24HRS)			PCN 3 DMSP								
30	022/2152Z	19.3N 149.6E	SAT	/T4.0/4.0 /D /24HRS)			PCN 3 DMSP								
31	022/2352Z	19.2N 149.7E	SAT	/T3.5/3.5 /D1.0/24HRS)			PCN 3 DMSP								
32	023/0532Z	19.4N 149.5E	SAT	/T4.0/4.0 /D1.5/25HRS)			NOAA-4	(CONF 02)							
33	030/0452Z	19.4N 148.9E	SAT	/T4.0/4.0 /D1.0/24HRS)			PCN 3 DMSP								
34	030/0522Z	19.8N 149.6E	P	5 5 700 350 60 250	90	70 280	40 979	290	14 12	-	- -	-			3
35	030/1302Z	19.8N 149.3E	P	5 5 700 360 75 270	45	90 270	45 976	287	14 12	CTHC		25			3
36	030/1842Z	19.8N 149.2E	SAT	/IR DATA)			PCN 6 DMSP								
37	031/0042Z	20.3N 149.1E	SAT	/IR DATA)			NOAA-4	(CONF 01)							
38	031/0852Z	19.8N 149.1E	SAT	/IR DATA)			PCN 5 DMSP								
39	031/1152Z	19.4N 149.2E	SAT	/IR DATA)			PCN 5 DMSP								
40	031/1552Z	19.7N 149.2E	SAT	/IR DATA)			PCN 3 DMSP								
41	031/1952Z	20.0N 149.0E	SAT	/IR DATA)			PCN 5 DMSP								
42	031/2302Z	19.6N 149.2E	SAT	/IR DATA)			PCN 3 DMSP								
43	031/2402Z	20.3N 149.5E	P	15 5 700 350 60 260	70	- -	- 968	281	17 12	CTHC		20			4
44	032/1142Z	20.6N 149.3E	SAT	/IR DATA)			PCN 3 DMSP								
45	032/1142Z	20.6N 149.7E	SAT	/IR DATA)			PCN 5 DMSP								
46	032/1552Z	20.6N 149.1E	SAT	/T5.0/5.0 /D1.0/24HRS)			PCN 3 DMSP								
47	032/2332Z	20.8N 149.0E	SAT	/T4.5/4.5 /D0.5/23HRS)			NOAA-4	(CONF 01)							
48	040/1452Z	21.6N 148.9E	SAT	/T5.0/5.0 /D1.0/24HRS)			PCN 2 DMSP								
49	040/2302Z	21.2N 149.0E	P	10 5 700 240 80 150	60	80 150	60 959	273	15 10	CTHC		40			5
50	040/2402Z	21.9N 148.3E	P	5 2 700 110 90 20	20	80 50	60 951	266	16 10	FLIP	N-S	38X1A			5

TYPHOON TESS
FIX POSITIONS FOR CYCLONE NO. 10
0000Z 02 SEP TO 0000Z 10 SEP

FIX NO.	TIME	POSIT	FIX CAT	ACCMY NAV-MET	FIX LVL	FLT LVL WIND DIR	FLT LVL WIND VEL	FLT LVL WIND BRG	FLT LVL WIND RNG	MAX OBS SFC WIND VEL	MAX OBS SFC WIND BRG	MAX OBS SFC WIND RNG	OBS MIN SLP	MIN 700MB HGT	FLT LVL TT/TD	EYE FORM	ORIENTATION	EYE DIA	POSIT OF RADAR	MSN NMBR
51	0411Z	21.8N 146.6E	SAT	(IN DATA					)	PCN 1	DMSP									
52	0411Z	22.0N 146.2E	SAT	(IN DATA					)	PCN 1	DMSP									
53	0412Z	21.9N 147.4E	SAT	(IN DATA					)	PCN 2	DMSP									
54	0412Z	22.1N 147.9E	SAT	(IN DATA					)	PCN 2	DMSP									
55	0411Z	22.5N 146.0E	SAT	(IN DATA					)	AOAA-4			(CONF 01)							
56	0414Z	22.1N 147.8E	P	4 5	700	260	77	190		35	-	-	-	965	261	17 12	EYE	N-S	20A1M		6
57	0421Z	23.5N 147.5E	SAT	(IN DATA					)	PCN 1	DMSP									
58	0421Z	23.6N 147.3E	SAT	(IN DATA					)	PCN 1	DMSP									
59	0423Z	23.5N 147.3E	SAT	(T5.5/5.5 / /					MHS)	PCN 1	DMSP									
60	0423Z	23.7N 147.0E	SAT	(T5.5/5.5 / /					MHS)	PCN 1	DMSP									
61	0423Z	23.7N 147.4E	SAT	(T5.5/5.5 /00.5/25MHS)						PCN 1	DMSP									
62	0501Z	23.6N 147.5E	SAT	(T5.5/5.5 /00.5/24MHS)						PCN 2	DMSP									
63	0504Z	24.5N 146.9E	SAT	(IN DATA					)	PCN 1	DMSP									
64	0504Z	24.2N 147.0E	SAT	(IN DATA					)	PCN 1	DMSP									
65	0504Z	24.3N 146.8E	SAT	(IN DATA					)	PCN 3	DMSP									
66	0501Z	24.5N 146.6E	P	5 5	700	220	80	140		55	50	140	75	947	263	18 15	CIRC		20		7
67	0503Z	25.1N 145.9E	P	2 5	700	20	70	290		47	35	290	47	948	264	18 11	CIRC		30		7
68	0504Z	25.3N 146.0E	SAT	(IN DATA					)	PCN 1	DMSP									
69	0512Z	25.0N 146.0E	SAT	(IN DATA					)	PCN 1	DMSP									
70	0512Z	25.6N 145.9E	SAT	(IN DATA					)	PCN 1	DMSP									
71	0514Z	26.0N 145.5E	P	5 3	700	240	70	190		70	-	-	-	950	265	16 14	CIRC		40		8
72	0520Z	26.6N 145.5E	SAT	(IN DATA					)	PCN 1	DMSP									
73	0520Z	26.5N 145.5E	SAT	(IN DATA					)	PCN 1	DMSP									
74	0524Z	26.6N 145.8E	SAT	(T5.0/5.5 /W0.5/24MHS)						PCN 1	DMSP									
75	0524Z	26.4N 145.6E	SAT	(T5.5/5.5 /S /24MHS)						PCN 1	DMSP									
76	0601Z	27.1N 145.7E	SAT	(IN DATA					)	PCN 1	DMSP									
77	0601Z	27.4N 145.6E	SAT	(IN DATA					)	PCN 1	DMSP									
78	0601Z	27.4N 144.5E	SAT	(T5.5/5.5 /S /24MHS)						PCN 1	DMSP									
79	0601Z	27.3N 145.2E	P	5 10	700	270	87	180		50	55	180	45	952	267	14 13	EYE	E-W	55A45		9
80	0604Z	27.6N 144.9E	SAT	(IN DATA					)	PCN 1	DMSP									
81	0604Z	27.9N 145.1E	SAT	(IN DATA					)	PCN 1	DMSP									
82	0611Z	28.4N 145.0E	SAT	(IN DATA					)	AOAA-4			(CONF 02)							
83	0611Z	27.4N 145.2E	SAT	(IN DATA					)	PCN 1	DMSP									
84	0611Z	28.1N 145.2E	SAT	(IN DATA					)	PCN 1	DMSP									
85	0615Z	28.3N 145.5E	P	5 2	700	270	85	180		60	-	-	-	958	272	15 13	-	- -	-		10
86	0620Z	28.3N 145.6E	SAT	(IN DATA					)	PCN 1	DMSP									
87	0620Z	28.3N 146.0E	SAT	(IN DATA					)	PCN 1	DMSP									
88	0624Z	28.3N 145.5E	SAT	(T5.0/5.0 /S /24MHS)						PCN 1	DMSP									
89	0624Z	28.4N 145.6E	SAT	(T4.5/5.5 /W1.0/24MHS)						PCN 1	DMSP									
90	0702Z	28.4N 144.8E	SAT	(T4.5/5.0 /W1.0/24MHS)						PCN 3	DMSP									
91	0704Z	29.0N 145.7E	P	- 20	700	350	65	260		63	-	-	-	964	282	17 15	-	- -	-		11
92	0704Z	28.9N 146.2E	P	- 10	700	100	70	360		65	55	10	115	966	279	16 14	-	- -	-		11
93	0704Z	29.5N 146.3E	SAT	(IN DATA					)	PCN 1	DMSP									
94	0708Z	28.7N 146.5E	SAT	(IN DATA					)	PCN 3	DMSP									
95	0710Z	29.4N 162.5E	SAT	(IN DATA					)	AOAA-4			(CONF 02)							
96	0711Z	28.4N 146.7E	SAT	(IN DATA					)	PCN 3	DMSP									
97	0711Z	29.4N 146.6E	SAT	(IN DATA					)	PCN 1	DMSP									
98	0714Z	29.0N 146.2E	P	3 5	700	290	85	180		50	-	-	-	965	279	13 13	-	- -	-		12
99	0721Z	28.9N 146.4E	SAT	(IN DATA					)	PCN 1	DMSP									
100	0721Z	29.1N 146.5E	SAT	(IN DATA					)	PCN 3	DMSP									
101	0722Z	29.0N 146.6E	SAT	(T4.0/5.0 /W1.0/24MHS)						PCN 3	DMSP									
102	0723Z	29.1N 146.8E	SAT	(T3.0/4.0 /W1.5/24MHS)						PCN 1	DMSP									
103	0801Z	29.3N 147.0E	SAT	(T3.5/4.5 /W1.0/24MHS)						PCN 4	DMSP									
104	0803Z	29.8N 146.6E	P	5 10	700	-	-	-		-	55	250	130	969	282	14 12	-	- -	-		13
105	0804Z	30.3N 147.2E	SAT	(IN DATA					)	PCN 3	DMSP									
106	0804Z	29.1N 147.0E	SAT	(IN DATA					)	PCN 3	DMSP									
107	0804Z	30.1N 147.1E	SAT	(IN DATA					)	PCN 3	DMSP									
108	0811Z	29.8N 147.4E	SAT	(IN DATA					)	PCN 3	DMSP									
109	0811Z	30.0N 147.2E	SAT	(IN DATA					)	PCN 3	DMSP									
110	0811Z	30.2N 147.3E	SAT	(IN DATA					)	PCN 3	DMSP									
111	0815Z	31.1N 147.2E	P	10 20	700	30	55	280		130	-	-	-	973	285	15 14	-	- -	-		14
112	0821Z	31.2N 147.4E	SAT	(IN DATA					)	PCN 3	DMSP									
113	0821Z	31.1N 147.9E	SAT	(IN DATA					)	PCN 4	DMSP									
114	0821Z	31.1N 147.7E	SAT	(IN DATA					)	PCN 4	DMSP									
115	0822Z	31.3N 148.0E	SAT	(T2.0/2.0 / /					MHS)	PCN 3	DMSP									
116	0822Z	31.1N 148.0E	SAT	(T2.5/3.5 /W1.5/24MHS)						PCN 3	DMSP									
117	0822Z	31.3N 147.8E	SAT	(T2.0/3.0 /W1.0/24MHS)						PCN 3	DMSP									
118	0901Z	30.1N 151.3E	SAT	(T2.5/3.5 /W1.0/24MHS)						PCN 5	DMSP									
119	0904Z	32.1N 147.7E	P	2 5	700	320	50	260		100	50	260	60	977	289	14 12	-	- -	-		15
120	0904Z	34.1N 149.6E	SAT	(IN DATA					)	PCN 6	DMSP									
121	0904Z	35.1N 150.1E	SAT	(IN DATA					)	PCN 6	DMSP									
122	0904Z	34.1N 150.0E	SAT	(IN DATA					)	AOAA-4			(CONF 01)							
123	0911Z	35.2N 150.7E	SAT	(IN DATA					)	PCN 6	DMSP									
124	0921Z	37.2N 151.7E	SAT	(IN DATA					)	PCN 6	DMSP									
125	0921Z	34.1N 151.0E	SAT	(IN DATA					)	PCN 5	DMSP									
126	0921Z	36.1N 150.9E	SAT	(IN DATA					)	PCN 5	DMSP									
127	0921Z	34.1N 152.4E	SAT	(T 0/1.0 /W2.0/24MHS)						PCN 5	DMSP									
128	0921Z	37.4N 152.6E	SAT	(T2.0/2.5-/W0.5/24MHS)						PCN 5	DMSP									
129	0921Z	34.5N 152.5E	SAT	(IN DATA					)	PCN 5	DMSP									
130	0921Z	40.6N 151.0E	SAT	(IN DATA					)	AOAA-4			(CONF 01)							
131	1001Z	40.0N 152.5E	SAT	(T1.5/2.5 /W1.0/24MHS)						PCN 3	DMSP									

TROPICAL STORM VIOLA
FIX POSITIONS FOR CYCLONE NO. 11
00007 05 SEP TO 0600Z 07 SEP

FIX NO.	TIME	POSIT	FIX CAT	ACCMY NAV-MET	FIX LVL	MAX OBS FLT LVL WIND DIR	VEL	BRG	RNG	MAX OBS SFC WIND VEL	BRG	RNG	OBS MIN SLP	MIN 700MB HGT	FLT LVL TI/TO	EYE FORM	ORIEN-TATION	EYE DIA	POSIT OF RADAR	MSN NMBR
1	0111Z	13.2N 136.7E	SAT	(IR DATA)						PCN 6 DMSP										
2	0121Z	13.7N 137.7E	SAT	(IR DATA)						PCN 5 DMSP										
3	0123Z	13.9N 137.4E	SAT	(T 0/1.0 / / HRS)						PCN 5 DMSP										
4	0210Z	14.1N 136.7E	SAT	(IR DATA)						PCN 5 DMSP										
5	0221Z	12.7N 133.3E	SAT	(IR DATA)						PCN 6 DMSP										
6	0224Z	13.2N 133.4E	SAT	(T 0/1.0 /S /25HRS)						PCN 5 DMSP										
7	0224Z	14.2N 132.5E	SAT	(T 0/1.0 / / HRS)						PCN 5 DMSP										
8	0321Z	13.7N 130.9E	SAT	(T1.0/1.0 / / HRS)						PCN 5 DMSP										
9	0423Z	15.4N 130.8E	SAT	(T2.0/2.0 /D1.0/24HRS)						NOAA-6			(CONF 01)							
10	0423Z	15.0N 131.4E	SAT	(T2.5/2.5 /D1.5/26HRS)						PCN 3 DMSP										
11	0423Z	14.7N 130.3E	SAT	(T2.0/2.0 / / HRS)						PCN 5 DMSP										
12	0423Z	14.6N 131.1E	SAT	(T2.5/2.5 / / HRS)						PCN 3 DMSP										
13	0503Z	15.0N 130.8E	SAT	(IR DATA)						PCN 3 DMSP										
14	0503Z	15.4N 131.5E	SAT	(T1.5/1.5 / / HRS)						PCN 3 DMSP										
15	0503Z	15.2N 131.1E	SAT	(IR DATA)						PCN 3 DMSP										
16	0503Z	15.0N 131.0E	SAT	(IR DATA)						PCN 5 DMSP										
17	0509Z	15.8N 130.7E	SAT	(IR DATA)						PCN 5 DMSP										
18	0512Z	15.2N 132.0E	SAT	(IR DATA)						PCN 5 DMSP										
19	0512Z	16.0N 131.5E	SAT	(IR DATA)						PCN 5 DMSP										
20	0521Z	16.0N 131.8E	P	5 2 700 170 40 30						60 40 30	60		997	306	12 9	CIRC		50		1
21	0522Z	16.1N 132.8E	SAT	(IR DATA)						PCN 5 DMSP										
22	0523Z	16.4N 131.7E	SAT	(T4.0/4.0 /D1.5/24HRS)						PCN 3 DMSP										
23	0523Z	16.4N 132.0E	SAT	(T3.0/3.0 /D1.0/24HRS)						PCN 5 DMSP										
24	0600Z	16.2N 131.6E	SAT	(T3.0/3.0 /D1.0/25HRS)						NOAA-6			(CONF 01)							
25	0602Z	16.5N 132.3E	P	3 2 700 330 40 260						35 65 340	30		996	305	13 10	CIRC		15		1
26	0605Z	16.6N 132.5E	SAT	(IR DATA)						PCN 3 DMSP										
27	0605Z	16.4N 132.1E	SAT	(IR DATA)						PCN 5 DMSP										
28	0605Z	16.2N 132.8E	SAT	(T2.5/2.5 /D1.0/24HRS)						PCN 4 DMSP										
29	0603Z	17.9N 132.9E	P	10 5 700 180 40 270						25 40 270	20		997	307	11 10	CIRC		15		2
30	0609Z	16.7N 133.0E	SAT	(IR DATA)						PCN 3 DMSP										
31	0615Z	14.2N 133.6E	SAT	(IR DATA)						NOAA-6			(CONF 02)							
32	0611Z	18.1N 133.1E	SAT	(IR DATA)						PCN 5 DMSP										
33	0611Z	17.4N 133.2E	SAT	(IR DATA)						PCN 5 DMSP										
34	0614Z	18.4N 133.3E	P	10 20 700 60 30 330						30 - -	-		999	308	10 -	-	- -	-		2
35	0622Z	19.1N 133.6E	SAT	(IR DATA)						PCN 5 DMSP										
36	0622Z	19.1N 133.9E	SAT	(T2.0/3.0 /W2.0/24HRS)						PCN 5 DMSP										
37	0622Z	19.2N 134.3E	SAT	(T3.0/3.0 /S /24HRS)						PCN 5 DMSP										
38	0703Z	19.4N 134.5E	SAT	(IR DATA)						PCN 5 DMSP										
39	0703Z	20.2N 134.5E	SAT	(IR DATA)						PCN 3 DMSP										
40	0703Z	20.2N 134.0E	SAT	(T1.5/2.0 /W1.0/24HRS)						PCN 6 DMSP										
41	0705Z	19.2N 134.2E	P	3 6 700 - - -						- 25 310	60		-	310	13 11	-	- -	-		3
42	0722Z	20.7N 137.4E	SAT	(T1.0/2.0 /W2.0/24HRS)						PCN 3 DMSP										
43	0802Z	21.1N 138.8E	SAT	(T 4.5/1.5 /W1.0/24HRS)						PCN 6 DMSP										

TYPHOON WINNIE
FIX POSITIONS FOR CYCLONE NO. 12
00007 09 SEP TO 0000Z 12 SEP

FIX NO.	TIME	POSIT	FIX CAT	ACCMY NAV-MET	FIX LVL	MAX OBS FLT LVL WIND DIR	VEL	BRG	RNG	MAX OBS SFC WIND VEL	BRG	RNG	OBS MIN SLP	MIN 700MB HGT	FLT LVL TI/TO	EYE FORM	ORIEN-TATION	EYE DIA	POSIT OF RADAR	MSN NMBR
1	0501Z	22.1N 161.7E	SAT	(T 0/1.0 / / HRS)						PCN 6 DMSP										
2	0722Z	22.8N 163.1E	SAT	(T1.0/1.0 / / HRS)						PCN 3 DMSP										
3	0802Z	23.3N 163.0E	SAT	(T1.0/1.0 / / HRS)						PCN 4 DMSP										
4	0804Z	24.1N 162.9E	SAT	(IR DATA)						NOAA-6			(CONF 01)							
5	0804Z	24.1N 163.6E	SAT	(IR DATA)						PCN 5 DMSP										
6	0805Z	23.4N 163.5E	SAT	(IR DATA)						PCN 5 DMSP										
7	0811Z	23.4N 163.8E	SAT	(IR DATA)						PCN 5 DMSP										
8	0820Z	25.4N 163.8E	SAT	(IR DATA)						PCN 5 DMSP										
9	0820Z	24.8N 163.9E	SAT	(IR DATA)						PCN 6 DMSP										
10	0820Z	25.4N 163.8E	SAT	(T2.0/2.0 / / HRS)						PCN 3 DMSP										
11	0820Z	25.4N 163.6E	SAT	(T2.0/2.0 /D1.0/24HRS)						PCN 3 DMSP										
12	0901Z	26.1N 164.3E	SAT	(IR DATA)						PCN 4 DMSP										
13	0901Z	26.1N 163.9E	SAT	(IR DATA)						PCN 4 DMSP										
14	0904Z	27.4N 163.7E	SAT	(IR DATA)						PCN 6 DMSP										
15	0904Z	24.0N 163.9E	SAT	(IR DATA)						PCN 4 DMSP										
16	0904Z	27.1N 163.9E	SAT	(IR DATA)						PCN 6 DMSP										
17	0904Z	27.2N 163.5E	SAT	(IR DATA)						NOAA-6			(CONF 01)							
18	0911Z	27.5N 164.0E	SAT	(IR DATA)						PCN 4 DMSP										
19	0911Z	24.1N 163.4E	SAT	(IR DATA)						PCN 4 DMSP										
20	0920Z	29.4N 162.7E	SAT	(IR DATA)						PCN 4 DMSP										
21	0920Z	24.3N 163.2E	SAT	(IR DATA)						PCN 4 DMSP										
22	0921Z	29.6N 162.9E	SAT	(T4.0/4.0 /D2.0/24HRS)						PCN 1 DMSP										
23	0921Z	24.4N 163.0E	SAT	(T4.0/4.0 / / HRS)						PCN 3 DMSP										
24	0921Z	24.7N 163.2E	SAT	(T4.0/4.0 /D2.0/24HRS)						PCN 1 DMSP										
25	1001Z	30.4N 163.0E	SAT	(T4.0/4.0 / / HRS)						PCN 4 DMSP										
26	1004Z	32.1N 163.0E	SAT	(IR DATA)						PCN 4 DMSP										
27	1004Z	28.0N 163.5E	SAT	(IR DATA)						NOAA-6			(CONF 01)							
28	1014Z	31.2N 162.7E	SAT	(IR DATA)						PCN 3 DMSP										
29	1014Z	32.2N 162.9E	SAT	(IR DATA)						PCN 4 DMSP										
30	1021Z	34.1N 162.3E	SAT	(T4.0/4.0 /S /24HRS)						PCN 1 DMSP										
31	1021Z	33.9N 162.7E	SAT	(T2.5/3.5-/W1.5/24HRS)						PCN 3 DMSP										
32	1101Z	35.2N 163.6E	SAT	(T4.0/4.0 /S /24HRS)						PCN 2 DMSP										
33	1110Z	34.4N 164.0E	SAT	(IR DATA)						PCN 2 DMSP										
34	1121Z	42.1N 164.6E	SAT	(T1.0/2.0-/W1.5/24HRS)						PCN 3 DMSP										

TYPHOON ALICE
FIX POSITIONS FOR CYCLONE NO. 13
00002 16 SEP TO 0A00Z 20 SEP

FIX NO.	TIME	POSIT	FIX CAT	ACCMY NAV-MET	FIX LVL	MAX OBS FLT LVL DIR	MAX OBS WIND VEL	MAX OBS WIND BRG	MAX OBS WIND RNG	SFC WIND VEL	SFC WIND BRG	SFC WIND RNG	OBS MIN SLP	MIN 700MB HGT	FLT LVL TT/TD	EYE FORM	ORIENTATION	EYE DIA	POSIT OF RADAR	MSN NMBR
1	112056Z	12.2N 147.8E	SAT	(T 0/1.0 / / HRS)						PCN 5	DMSP									
2	112356Z	12.3N 147.7E	SAT	(T 0/1.0 / / HRS)						PCN 5	DMSP									
3	121009Z	11.1N 142.8E	SAT	(IR DATA)						PCN 5	DMSP									
4	122237Z	10.1N 139.7E	SAT	(T 0/1.0 /S /24HRS)						PCN 3	DMSP									
5	130457Z	9.8N 139.4E	SAT	(IR DATA)						PCN 5	DMSP									
6	131118Z	10.0N 139.0E	SAT	(IR DATA)						PCN 5	DMSP									
7	132100Z	9.7N 139.8E	SAT	(IR DATA)						PCN 5	DMSP									
8	140000Z	9.5N 136.7E	SAT	(T1.0/1.0 /D1.0/25HRS)						PCN 3	DMSP									
9	140456Z	11.4N 135.5E	SAT	(IR DATA)						PCN 6	DMSP									
10	140456Z	11.5N 135.4E	SAT	(IR DATA)						PCN 6	DMSP									
11	142027Z	11.4N 131.6E	SAT	(T1.0/1.0 /S /24HRS)						PCN 5	DMSP									
12	151115Z	11.4N 131.2E	SAT	(IR DATA)						PCN 5	DMSP									
13	151624Z	13.4N 131.0E	SAT	(IR DATA)						PCN 3	DMSP									
14	151724Z	13.2N 131.4E	SAT	(IR DATA)						PCN 5	DMSP									
15	152118Z	14.4N 130.0E	SAT	(IR DATA)						PCN 5	DMSP									
16	152418Z	13.4N 129.9E	SAT	(IR DATA)						PCN 5	DMSP									
17	152424Z	13.7N 129.8E	SAT	(T2.0/2.0 /D1.0/24HRS)						PCN 5	DMSP									
18	152724Z	13.7N 129.9E	SAT	(T1.0/1.0 / / HRS)						PCN 5	DMSP									
19	152512Z	14.8N 129.4E	SAT	(T2.0/2.0 /D1.0/23HRS)				NOAA-4			(CONF 02)									
20	160235Z	13.7N 128.8E	P	5 5 1500 80 45 360						35	40	360	35 1002	-	25 24	EYE	N-S	45X25		2
21	160307Z	13.8N 128.3E	SAT	(IR DATA)						PCN 5	DMSP									
22	160807Z	13.8N 129.0E	SAT	(IR DATA)						PCN 5	DMSP									
23	160907Z	13.9N 129.1E	SAT	(T2.0/2.0 / / HRS)						PCN 3	DMSP									
24	161103Z	14.0N 127.6E	SAT	(IR DATA)						PCN 3	DMSP									
25	161103Z	14.0N 127.7E	SAT	(IR DATA)						PCN 3	DMSP									
26	161205Z	14.1N 127.4E	SAT	(IR DATA)						PCN 3	DMSP									
27	161205Z	13.3N 127.9E	SAT	(IR DATA)						PCN 3	DMSP									
28	161205Z	14.3N 127.3E	SAT	(IR DATA)						PCN 3	DMSP									
29	161715Z	14.3N 126.6E	P	5 5 700 140 58 60						30	-	-	- 1003	311	14 9	CTHC		20		3
30	162055Z	14.5N 125.8E	P	5 10 700 20 40 290						70	-	-	- 996	305	13 11	CTHC		30		3
31	162057Z	14.6N 125.6E	SAT	(T4.0/4.0-/D2.0/23HRS)						PCN 3	DMSP									
32	162206Z	14.6N 125.7E	SAT	(IR DATA)						PCN 3	DMSP									
33	170046Z	15.0N 124.1E	SAT	(T3.5/3.5 /D1.5/25HRS)				NOAA-4			(CONF 01)									
34	170447Z	14.8N 125.4E	SAT	(T3.0/3.0 /D2.0/25HRS)						PCN 3	DMSP									
35	170447Z	14.8N 124.7E	P	2 5 700 220 50 160						45	65	330	30 987	298	14 10	CTHC		20		4
36	170429Z	14.9N 124.5E	SAT	(IR DATA)						PCN 3	DMSP									
37	170429Z	14.4N 124.7E	SAT	(T3.5/3.5 / / HRS)						PCN 3	DMSP									
38	170800Z	15.3N 124.2E	LRDR	- 35///															13.1N 123.7E	
39	170445Z	15.1N 123.9E	P	2 1 700 120 85 70						15	75	70	15 975	287	15 10	CTHC		20		5
40	170808Z	15.2N 123.6E	LRDR	- 10 DEGREE SPIRAL OVERLAY															15.2N 120.3E	
41	171051Z	15.2N 123.6E	SAT	(IR DATA)						PCN 3	DMSP									
42	171051Z	15.4N 123.6E	SAT	(IR DATA)						PCN 3	DMSP									
43	171451Z	15.3N 123.5E	SAT	(IR DATA)						PCN 3	DMSP									
44	171100Z	15.4N 123.4E	LRDR	- 55///															14.2N 120.3E	
45	171128Z	15.2N 122.7E	SAT	(IR DATA)				NOAA-4			(CONF 02)									
46	171230Z	15.7N 123.3E	LRDR	- 10307															14.2N 120.3E	
47	171300Z	15.7N 123.2E	LRDR	- 20461															14.2N 120.3E	
48	171429Z	15.4N 123.0E	SAT	(IR DATA)						PCN 5	DMSP									
49	171430Z	15.4N 122.7E	P	3 2 700 150 105 40						15	-	-	- 971	284	19 12	CTHC		12		5
50	171700Z	15.7N 122.4E	LRDR	- 10797															14.2N 120.3E	
51	171400Z	15.4N 121.9E	LRDR	- 10712															14.2N 120.3E	
52	172335Z	16.3N 120.8E	SAT	(IR DATA)						PCN 5	DMSP									
53	180000Z	16.8N 120.7E	LRDR	- 35/71															14.8N 121.0E	
54	180028Z	16.3N 120.0E	SAT	(T4.0/4.0+/S /25HRS)						PCN 3	DMSP									
55	180628Z	16.9N 120.4E	SAT	(T4.0/4.0 /D1.0/24HRS)						PCN 3	DMSP									
56	180300Z	17.1N 119.4E	LRDR	- 11977															14.2N 120.3E	
57	180400Z	16.5N 119.3E	LRDR	- POSSIBLE EYE, 20 DEGREE SPIRAL OVERLAY															14.2N 120.3E	
58	180400Z	17.0N 118.9E	LRDR	- 11977															14.2N 120.3E	
59	180411Z	17.0N 118.7E	SAT	(IR DATA)						PCN 3	DMSP									
60	180411Z	16.7N 118.8E	SAT	(IR DATA)						PCN 4	DMSP									
61	181224Z	16.5N 117.5E	SAT	(IR DATA)				NOAA-4			(CONF 01)									
62	181410Z	16.4N 116.6E	SAT	(IR DATA)						PCN 3	DMSP									
63	181940Z	16.4N 116.4E	P	20 15 700 140 60 30						100	-	-	- 993	303	12 12	CTHC		20		6
64	182323Z	17.3N 114.9E	SAT	(IR DATA)						PCN 5	DMSP									
65	190010Z	17.4N 113.9E	SAT	(T4.0/4.0-/D1.0/24HRS)						PCN 3	DMSP									
66	190010Z	17.2N 114.4E	SAT	(T4.0/4.0 /S /24HRS)						PCN 3	DMSP									
67	190440Z	17.9N 114.0E	SAT	(T4.0/4.0 /D1.0/23HRS)				NOAA-4			(CONF 01)									
68	190952Z	17.4N 113.3E	SAT	(IR DATA)						PCN 3	DMSP									
69	190952Z	17.2N 113.5E	SAT	(IR DATA)						PCN 3	DMSP									
70	190952Z	17.4N 113.1E	SAT	(T4.0/4.0 /D0.5/24HRS)						PCN 4	DMSP									
71	191208Z	14.4N 111.5E	SAT	(IR DATA)						PCN 2	DMSP									
72	191709Z	14.5N 111.4E	SAT	(IR DATA)						PCN 3	DMSP									
73	191952Z	18.4N 110.9E	SAT	(IR DATA)						PCN 3	DMSP									
74	191952Z	18.7N 111.0E	SAT	(IR DATA)						PCN 3	DMSP									
75	191952Z	18.3N 111.0E	SAT	(IR DATA)						PCN 3	DMSP									
76	192311Z	18.8N 108.5E	SAT	(IR DATA)						PCN 3	DMSP									
77	192311Z	18.7N 108.6E	SAT	(T3.5/4.0 /W0.5/24HRS)						PCN 6	DMSP									
78	200133Z	19.2N 108.4E	SAT	(T3.0/4.0-/W1.0/24HRS)						PCN 3	DMSP									
79	201156Z	19.7N 105.6E	SAT	(IR DATA)						PCN 3	DMSP									
80	201157Z	19.4N 106.1E	SAT	(IR DATA)						PCN 3	DMSP									
81	201414Z	19.5N 105.7E	SAT	(IR DATA)						PCN 3	DMSP									
82	210115Z	20.2N 102.6E	SAT	(IR DATA)						PCN 5	DMSP									

TYPHOON MITTY

FIX POSITIONS FOR CYCLONE NO. 14

060000Z 17 SEP TO 120000Z 23 SEP

FIX NO.	TIME	POSITION	FIX CAT	AIRCRAFT NAV-MET	FIX LEVEL	FLT LVL DIR	FLT LVL VEL	MAX OBS WIND RAD	MAX OBS WIND SFC VEL	MAX OBS WIND RAD	OBS MIN SLP	MIN 700MB HGT	FLT LVL TT/TD	EYE FORM	ORIENTATION	EYE DIA	POSIT UP RADAR	MSA NMI
1	150/13Z	9.0N 154.6E	SAT	(IR DATA)					PCN 5 DMSP									
2	151/12Z	11.1N 154.4E	SAT	(IR DATA)					PCN 3 DMSP									
3	152/08Z	11.9N 152.4E	SAT	(T 0/1.0 / / nmS)					PCN 5 DMSP									
4	152/12Z	12.1N 152.2E	SAT	(IR DATA)					PCN 5 DMSP									
5	160/05Z	11.4N 150.5E	SAT	(IR DATA)					PCN 5 DMSP									
6	160/21Z	11.8N 149.1E	SAT	(IR DATA)					PCN 6 DMSP									
7	160/06Z	10.4N 149.3E	P	20 15 1500 300 10 180				90	35 180	90	1002	-	21 21	-	- -	-		1
8	161/04Z	11.1N 148.9E	SAT	(IR DATA)					PCN 6 DMSP									
9	161/09Z	11.8N 148.6E	SAT	(IR DATA)					PCN 5 DMSP									
10	162/05Z	12.1N 148.0E	SAT	(T1.0/1.0 /00.5/24hrS)					NOAA-9		(CONF 01)							
11	162/10Z	12.4N 148.3E	SAT	(IR DATA)					PCN 5 DMSP									
12	170/15Z	12.8N 147.6E	P	- - 1500 - - -				-	- - -	-	1008	-	- -	-	- -	-		2
13	170/17Z	13.1N 147.2E	SAT	(T1.0/1.0 /01.0/30hrS)					PCN 5 DMSP									
14	170/18Z	13.1N 147.3E	SAT	(T1.0/1.0 / / nmS)					PCN 6 DMSP									
15	170/09Z	13.1N 147.3E	SAT	(IR DATA)					PCN 6 DMSP									
16	171/ 6Z	13.4N 147.2E	P	15 5 700 240 30 120				70	- -	-	1003	312	11 10	-	- -	-		3
17	171/17Z	13.5N 147.1E	SAT	(IR DATA)					PCN 5 DMSP									
18	171/17Z	13.4N 146.7E	SAT	(IR DATA)					PCN 3 DMSP									
19	171/17Z	13.4N 146.7E	SAT	(IR DATA)					PCN 5 DMSP									
20	171/10Z	13.7N 146.6E	P	5 3 700 20 30 330				30	- -	-	1002	311	11 10	-	- -	-		3
21	172/03Z	13.9N 145.5E	SAT	(IR DATA)					PCN 5 DMSP									
22	172/15Z	13.6N 145.3E	SAT	(IR DATA)					PCN 5 DMSP									
23	172/18Z	13.8N 144.7E	SAT	(T3.0/3.0 /02.0/21hrS)					PCN 5 DMSP									
24	172/18Z	13.6N 145.2E	SAT	(T2.5/2.5 / / nmS)					PCN 3 DMSP									
25	180/02Z	13.9N 144.6E	SAT	(T2.0/2.0 / / nmS)					PCN 6 DMSP									
26	180/09Z	13.7N 144.8E	SAT	(IR DATA)					PCN 5 DMSP									
27	180/09Z	13.9N 145.2E	SAT	(IR DATA)					PCN 3 DMSP									
28	180/15Z	13.9N 145.3E	P	7 15 700 110 35 30				25	35 30	20	1003	311	12 11	-	- -	-		4
29	180/16Z	13.7N 147.8E	P	15 5 700 50 30 320				20	35 320	15	-	309	14 11	-	- -	-		4
30	181/08Z	13.7N 144.2E	SAT	(IR DATA)					NOAA-9		(CONF 02)							
31	181/09Z	13.0N 143.9E	SAT	(IR DATA)					PCN 5 DMSP									
32	181/09Z	13.4N 144.3E	SAT	(IR DATA)					PCN 5 DMSP									
33	181/09Z	13.4N 143.9E	SAT	(IR DATA)					PCN 5 DMSP									
34	181/09Z	13.3N 144.3E	SAT	(IR DATA)					PCN 5 DMSP									
35	181/05Z	13.7N 143.4E	P	10 10 700 180 35 100				25	- -	-	-	-	14 15	CIRC		10		5
36	182/05Z	13.4N 142.9E	P	5 5 700 190 20 60				40	40 330	7	993	303	16 11	CIRC		35		6
37	182/11Z	13.4N 142.8E	SAT	(IR DATA)					PCN 3 DMSP									
38	182/11Z	13.4N 142.4E	SAT	(IR DATA)					PCN 5 DMSP									
39	182/20Z	13.4N 142.7E	SAT	(IR DATA)					PCN 5 DMSP									
40	182/20Z	13.9N 142.6E	SAT	(T3.0/3.0 /00.5/24hrS)					PCN 5 DMSP									
41	190/10Z	13.9N 142.6E	SAT	(T3.5/3.5 /00.5/25hrS)					PCN 5 DMSP									
42	190/04Z	13.4N 142.0E	SAT	(T3.0/3.0 /00.5/25hrS)					NOAA-9		(CONF 01)							
43	190/11Z	13.4N 142.4E	SAT	(IR DATA)					PCN 6 DMSP									
44	190/05Z	13.4N 142.1E	SAT	(IR DATA)					PCN 3 DMSP									
45	190/05Z	13.8N 142.2E	SAT	(T3.0/3.0 / / nmS)					PCN 3 DMSP									
46	190/05Z	13.8N 142.5E	SAT	(T3.5/3.5 /01.5/24hrS)					PCN 6 DMSP									
47	191/22Z	13.4N 142.1E	SAT	(IR DATA)					PCN 4 DMSP									
48	191/17Z	13.2N 142.6E	SAT	(IR DATA)					PCN 5 DMSP									
49	191/10Z	13.3N 142.1E	SAT	(IR DATA)					PCN 3 DMSP									
50	191/15Z	13.3N 141.6E	P	3 5 700 200 55 120				42	- -	-	982	293	13 9	EYE	E-W	30X20		7
51	192/05Z	13.4N 141.1E	P	5 2 700 270 50 180				20	50 180	25	983	294	13 11	CIRC		25		8
52	192/12Z	13.9N 141.4E	SAT	(IR DATA)					PCN 3 DMSP									
53	192/12Z	13.9N 141.9E	SAT	(IR DATA)					PCN 5 DMSP									
54	192/22Z	14.2N 141.5E	SAT	(T4.0/4.0 /00.5/24hrS)					PCN 3 DMSP									
55	192/22Z	14.1N 141.4E	SAT	(T4.0/4.0 /01.0/23hrS)					PCN 3 DMSP									
56	192/22Z	14.2N 141.6E	SAT	(T4.0/4.0 /01.0/24hrS)					PCN 3 DMSP									
57	200/34Z	14.1N 141.9E	SAT	(IR DATA)					PCN 3 DMSP									
58	200/34Z	14.4N 141.9E	SAT	(IR DATA)					PCN 3 DMSP									
59	200/34Z	14.4N 141.9E	SAT	(T4.0/4.0 /00.5/24hrS)					PCN 3 DMSP									
60	200/37Z	14.2N 142.8E	P	5 2 700 30 50 300				40	60 310	60	979	291	18 13	CIRC		20		9
61	201/14Z	14.5N 142.6E	SAT	(IR DATA)					PCN 3 DMSP									
62	201/15Z	14.1N 142.1E	SAT	(IR DATA)					PCN 5 DMSP									
63	201/33Z	14.1N 142.0E	SAT	(IR DATA)					PCN 5 DMSP									
64	201/33Z	14.2N 142.1E	SAT	(IR DATA)					PCN 5 DMSP									
65	201/33Z	14.4N 142.4E	SAT	(IR DATA)					PCN 3 DMSP									
66	201/30Z	14.3N 141.2E	P	7 3 700 170 75 90				65	- -	-	978	290	18 13	CIRC		20		9
67	202/03Z	14.6N 140.1E	P	5 5 700 30 65 290				25	- -	-	974	286	16 11	CIRC		30		10
68	202/17Z	14.5N 140.4E	SAT	(IR DATA)					PCN 5 DMSP									
69	202/17Z	14.5N 140.5E	SAT	(IR DATA)					PCN 5 DMSP									
70	202/23Z	14.4N 140.4E	SAT	(T5.0/5.0-/01.0/24hrS)					PCN 3 DMSP									
71	202/33Z	14.8N 140.2E	SAT	(T5.0/5.0 /01.0/24hrS)					PCN 3 DMSP									
72	202/33Z	14.4N 140.5E	SAT	(T5.0/5.0-/01.0/24hrS)					PCN 3 DMSP									
73	210/30Z	22.1N 126.6E	P	5 1 700 60 25 140				85	80 60	25	968	281	16 13	CIRC		25		10
74	210/15Z	22.4N 126.4E	SAT	(IR DATA)					PCN 1 DMSP									
75	210/15Z	22.4N 126.2E	SAT	(IR DATA)					PCN 1 DMSP									
76	210/15Z	22.3N 126.4E	SAT	(IR DATA)					PCN 1 DMSP									
77	210/00Z	22.6N 127.2E	EHUM	- 5/??2													22.8N 126.3E	
78	210/00Z	22.6N 127.2E	EHUM	- 5/??2													22.9N 126.6E	
79	210/00Z	22.6N 126.9E	EHUM	- 6/??3													22.9N 126.6E	
80	210/00Z	22.7N 126.9E	EHUM	- 5/??2													22.8N 126.3E	
81	210/07Z	22.6N 126.8E	P	10 2 700 90 80 10 30				80	10	25	958	273	16 12	CIRC		10		11
82	211/00Z	22.6N 126.6E	EHUM	- 5/??3													22.9N 126.6E	
83	211/00Z	22.7N 126.6E	EHUM	- 5/??3													22.8N 126.3E	
84	211/02Z	22.6N 126.6E	SAT	(IR DATA)					PCN 5 DMSP									
85	211/00Z	22.6N 126.3E	EHUM	- 5/??3													22.9N 126.6E	
86	211/00Z	22.6N 126.4E	EHUM	- 65/??3													22.8N 126.3E	
87	211/21Z	23.0N 126.0E	SAT	(IR DATA)					NOAA-9		(CONF 01)							
88	211/00Z	22.7N 126.2E	EHUM	- 11?03													22.8N 126.3E	
89	211/00Z	22.6N 126.2E	EHUM	- 5/??3													22.9N 126.6E	
90	211/15Z	22.8N 126.1E	SAT	(IR DATA)					PCN 1 DMSP									
91	211/15Z	22.7N 126.0E	SAT	(IR DATA)					PCN 2 DMSP									

TYPHOON PETTY
FIX POSITIONS FOR CYCLONE NO. 14
0600Z 17 SEP TO 1200Z 23 SEP

FIX NO.	TIME	POSITION	FIX CAT	AGENCY & MET	FIX LVL	FLT LVL	MAX OBS WIND DIR	MAX OBS WIND VEL	MAX OBS WIND RAD	MAX OBS WIND RNG	OBS MIN SLP	MIN /100MB HGT	FLT LVL TT/TD	EYE FORM	ORIENTATION	EYE DIA	POSIT OF RADAR	MSN NMBR
92	211500Z	22.4N 125.9E	LRDR	- 22813													24.4N 125.3E	
93	211700Z	22.4N 125.4E	LRDR	- 85773													24.4N 125.3E	
94	211+30Z	22.4N 125.6E	P 2	5 700	220	70	160	30	-	-	-	952	267	17 13	CTHC		20		11
95	211500Z	22.4N 125.4E	LRDR	- 55773													24.4N 125.3E	
96	211900Z	22.4N 125.4E	LRDR	- 57772													24.3N 124.2E	
97	211+00Z	22.4N 125.0E	LRDR	- 57773													24.3N 124.2E	
98	211900Z	22.4N 125.1E	LRDR	- 21813													24.4N 125.3E	
99	211700Z	22.4N 124.9E	LRDR	- 57772													24.3N 124.2E	
100	211700Z	22.4N 124.9E	LRDR	- 41813													24.4N 125.3E	
101	211+00Z	22.4N 124.5E	LRDR	- 67772													24.3N 124.2E	
102	211900Z	22.8N 124.7E	LRDR	- 41813													24.4N 125.3E	
103	211900Z	22.8N 124.4E	LRDR	- 57772													24.3N 124.2E	
104	211+00Z	22.4N 124.5E	LRDR	- 41813													24.4N 125.3E	
105	212000Z	22.4N 124.3E	LRDR	- 51993													24.4N 125.3E	
106	212+00Z	22.4N 124.1E	P 10	2 700	300	70	220	30	-	-	-	950	266	18 15	CTHC		15		12
107	212100Z	22.8N 124.1E	LRDR	- 55773													24.8N 125.3E	
108	212100Z	22.4N 124.2E	LRDR	- 35973													24.0N 121.6E	
109	212247Z	22.4N 123.7E	SAT	(15.0/5.0 /S /23HRS)				PCN 2 DMSP										
110	212247Z	22.4N 123.8E	SAT	(IR DATA)				PCN 1 DMSP										
111	212247Z	22.4N 124.0E	SAT	(15.0/5.0-/S /23HRS)				PCN 1 DMSP										
112	212100Z	22.4N 123.7E	LRDR	- 55773													24.3N 124.2E	
113	212+00Z	22.8N 123.7E	LRDR	- 10913													24.4N 125.3E	
114	212+15Z	22.4N 123.6E	SAT	(IR DATA)				PCN 1 DMSP										
115	212+15Z	22.4N 123.5E	SAT	(15.0/5.0-/D /24HRS)				PCN 1 DMSP										
116	212+15Z	22.4N 123.7E	SAT	(IR DATA)				PCN 1 DMSP										
117	220+00Z	22.4N 123.5E	SAT	(IR DATA)				PCN 1 DMSP										
118	220100Z	22.6N 123.2E	LRDR	- 57773													24.0N 121.6E	
119	220100Z	22.8N 123.0E	LRDR	- 55772													24.3N 124.2E	
120	220100Z	22.6N 123.2E	LRDR	- 20903													24.4N 125.3E	
121	220+00Z	22.4N 123.0E	LRDR	- 57772													24.3N 124.2E	
122	220+00Z	22.4N 123.1E	LRDR	- 10912													24.4N 125.3E	
123	220300Z	22.5N 123.2E	P 3	2 700	100	110	330	60	80	330	15	944	260	20 12	CTHC		15		12
124	220300Z	22.5N 122.9E	LRDR	- 77772													24.3N 124.2E	
125	220300Z	22.4N 122.9E	LRDR	- 10913													24.4N 125.3E	
126	220+00Z	22.6N 122.8E	LRDR	- 10962													24.0N 121.6E	
127	220400Z	22.4N 122.4E	LRDR	- 77772													24.3N 124.2E	
128	220400Z	22.6N 122.7E	LRDR	- 10914													24.4N 125.3E	
129	220+30Z	22.6N 122.5E	SAT	(IR DATA)				PCN 1 DMSP										
130	220430Z	22.4N 123.2E	SAT	(16.0/6.0 /D1.0/24HRS)				PCN 1 DMSP										
131	220500Z	22.7N 122.7E	LRDR	- 10912													24.0N 121.6E	
132	220500Z	23.1N 122.5E	LRDR	- 10932													24.3N 124.2E	
133	220700Z	23.1N 122.2E	LRDR	- 20942													24.0N 121.6E	
134	220700Z	22.8N 122.0E	LRDR	- 19936													24.3N 124.2E	
135	220+00Z	23.1N 121.8E	LRDR	- 67772													24.0N 121.6E	
136	220+00Z	22.9N 121.8E	LRDR	- 67777													24.3N 124.2E	
137	220+00Z	22.7N 121.6E	LRDR	- 57773													24.0N 121.6E	
138	220+00Z	22.3N 121.5E	LRDR	- 57773													24.3N 124.2E	
139	221000Z	23.1N 121.3E	LRDR	- 13677													24.3N 124.2E	
140	221+22Z	22.3N 120.7E	SAT	(IR DATA)				PCN 5 DMSP										
141	221+38Z	22.3N 120.1E	SAT	(IR DATA)				PCN 6 DMSP										
142	221+00Z	22.4N 120.1E	LRDR	- 25777													22.8N 120.3E	
143	221+00Z	22.4N 120.0E	LRDR	- 56777													22.8N 120.3E	
144	221700Z	22.4N 119.8E	LRDR	- 56777													22.8N 120.3E	
145	221+00Z	22.4N 119.6E	LRDR	- 56777													22.8N 120.3E	
146	221+00Z	22.4N 119.6E	LRDR	- 56777													22.8N 120.3E	
147	222000Z	22.4N 119.3E	LRDR	- 55777													22.8N 120.3E	
148	222+34Z	23.1N 118.5E	SAT	(13.5/4.5 /W1.5/24HRS)				PCN 5 DMSP										
149	222+52Z	22.4N 118.9E	SAT	(13.0/4.0 /W2.0/23HRS)				PCN 5 DMSP										
150	222+52Z	22.4N 118.8E	SAT	(IR DATA)				PCN 5 DMSP										
151	223000Z	22.4N 119.2E	LRDR	- 56777													22.8N 120.3E	
152	230+58Z	23.1N 118.8E	SAT	(13.5/4.5-/W1.5/20HRS)				PCN 3 DMSP										
153	230+00Z	23.4N 118.4E	LRDR	- 56777													22.8N 120.3E	
154	230+19Z	23.1N 118.0E	SAT	(IR DATA)				PCN 3 DMSP										
155	230+19Z	23.1N 118.3E	SAT	(14.0/5.0 /W2.0/24HRS)				PCN 3 DMSP										
156	230+00Z	23.5N 118.2E	LRDR	- 56777													22.8N 120.3E	
157	230+00Z	23.6N 118.0E	LRDR	- 56777													22.8N 120.3E	
158	231120Z	23.4N 116.8E	SAT	(IR DATA)				PCN 5 DMSP										
159	231+19Z	23.4N 116.2E	SAT	(IR DATA)				PCN 5 DMSP										
160	240019Z	23.4N 113.3E	SAT	(IR DATA)				PCN 5 DMSP										

TYPHOON CORA
FIX POSITIONS FOR CYCLONE NO. 15
0600Z 01 OCT TO 0600Z 06 OCT

FIX NO.	TIME	POSIT	FIX CAT	ACCRY NAV-MET	FIX LVL	FLT LVL WIND DIR	FLT LVL WIND VEL	FLT LVL WIND BRG	FLT LVL WIND RNG	MAX OBS SFC WIND VEL	MAX OBS SFC WIND BRG	MAX OBS SFC WIND RNG	OBS MIN SLP	MIN 700MB HGT	FLT LVL TT/TD	EYE FORM	ORIENTATION	EYE DIA	POSIT OF RADAR	MSN NMBR
1	282/48Z	10.2N 142.8E	SAT	(T1.0/1.0 /	/ HRS)			PCN 5	DMSP											
2	291/08Z	10.1N 141.7E	SAT	(IR DATA	)			PCN 5	DMSP											
3	291/08Z	8.4N 141.7E	SAT	(IR DATA	)			PCN 5	DMSP											
4	291130Z	9.4N 141.6E	SAT	(IR DATA	)			PCN 6	DMSP											
5	291130Z	8.4N 142.0E	SAT	(IR DATA	)			PCN 5	DMSP											
6	292100Z	10.0N 136.9E	SAT	(IR DATA	)			PCN 6	DMSP											
7	300/12Z	9.1N 138.5E	SAT	(T1.0/1.0 /S	/25HRS)			PCN 5	DMSP											
8	300/12Z	9.4N 138.6E	SAT	(T1.0/1.0 /	/ HRS)			PCN 5	DMSP											
9	300/56Z	10.4N 136.6E	SAT	(IR DATA	)			PCN 5	DMSP											
10	300/56Z	10.2N 136.6E	SAT	(IR DATA	)			PCN 5	DMSP											
11	301/12Z	10.5N 136.3E	SAT	(IR DATA	)			PCN 5	DMSP											
12	301/12Z	10.4N 137.0E	SAT	(IR DATA	)			PCN 6	DMSP											
13	302/40Z	12.1N 133.6E	SAT	(IR DATA	)			PCN 5	DMSP											
14	302/53Z	13.0N 133.9E	SAT	(T2.5/2.5 /D1.5/24HRS)				PCN 5	DMSP											
15	302/53Z	13.0N 133.9E	SAT	(T2.0/2.0 /D1.0/24HRS)				PCN 5	DMSP											
16	010/32Z	14.0N 134.0E	SAT	(IR DATA	)			PCN 5	DMSP											
17	010/07Z	13.8N 133.3E	P	5 15 1500	180	34	250	75	35 250	100	1001	-	23 23	-	- -	-				2
18	010/26Z	14.0N 134.0E	SAT	(IR DATA	)			PCN 5	DMSP											
19	010/31Z	14.1N 132.4E	P	5 10 700	40	28	310	150	20 310	200	999	308	11 10	-	- -	-				2
20	010/43Z	14.6N 132.9E	SAT	(IR DATA	)			PCN 5	DMSP											
21	010/43Z	15.2N 133.2E	SAT	(IR DATA	)			PCN 5	DMSP											
22	011/05Z	13.8N 134.4E	SAT	(IR DATA	)			NOAA-4		(CONF 01)										
23	011/34Z	15.1N 133.4E	SAT	(IR DATA	)			PCN 5	DMSP											
24	011/34Z	15.5N 133.2E	SAT	(IR DATA	)			PCN 5	DMSP											
25	011/34Z	15.7N 134.2E	SAT	(IR DATA	)			PCN 6	DMSP											
26	011/55Z	15.6N 132.4E	P	5 20 700	170	35	110	170	- -	~	1001	309	11 11	-	- -	-				3
27	012/32Z	16.8N 131.8E	P	5 10 700	330	22	250	25	- -	~	-	308	11 10	-	- -	-				3
28	012/28Z	16.9N 132.1E	SAT	(IR DATA	)			PCN 5	DMSP											
29	012/11Z	17.2N 132.7E	SAT	(T3.0/3.0 /D1.5/23HRS)				NOAA-4		(CONF 01)										
30	012/34Z	17.5N 132.2E	SAT	(T3.0/3.0 /D0.5/24HRS)				PCN 5	DMSP											
31	012/34Z	17.6N 132.6E	SAT	(T3.0/3.0 /D1.0/24HRS)				PCN 3	DMSP											
32	012/34Z	17.6N 132.4E	SAT	(T2.0/2.0 /	/ HRS)			PCN 5	DMSP											
33	020/13Z	18.8N 131.8E	SAT	(IR DATA	)			PCN 3	DMSP											
34	020/13Z	18.7N 132.2E	SAT	(IR DATA	)			PCN 3	DMSP											
35	020/13Z	18.2N 132.1E	SAT	(T2.5/2.5 /D1.0/24HRS)				PCN 4	DMSP											
36	020/40Z	18.9N 131.6E	P	5 2 700	170	45	70	20	35 320	15	997	306	14 11	-	- -	-				4
37	021/13Z	20.4N 131.0E	SAT	(IR DATA	)			PCN 5	DMSP											
38	021/13Z	19.3N 131.5E	SAT	(IR DATA	)			PCN 5	DMSP											
39	021/16Z	20.3N 130.8E	SAT	(IR DATA	)			PCN 5	DMSP											
40	021/16Z	20.2N 131.4E	SAT	(IR DATA	)			PCN 5	DMSP											
41	021/30Z	20.0N 130.7E	P	5 5 700	130	48	50	60	- -	-	-	309	15 10	-	- -	-				4
42	022/16Z	21.7N 129.6E	SAT	(IR DATA	)			PCN 3	DMSP											
43	022/16Z	21.3N 129.7E	SAT	(IR DATA	)			PCN 3	DMSP											
44	022/16Z	21.7N 129.3E	SAT	(T4.0/4.0 /D1.0/24HRS)				PCN 3	DMSP											
45	022/16Z	21.5N 129.7E	SAT	(T4.0/4.0 /D1.0/24HRS)				PCN 3	DMSP											
46	030/04Z	21.4N 129.1E	SAT	(T4.0/4.0 /D1.0/25HRS)				NOAA-4		(CONF 01)										
47	030/54Z	22.1N 129.5E	SAT	(IR DATA	)			PCN 3	DMSP											
48	030/54Z	22.0N 129.5E	SAT	(IR DATA	)			PCN 3	DMSP											
49	030/54Z	22.1N 128.9E	SAT	(T3.5/3.5 /D1.0/24HRS)				PCN 4	DMSP											
50	030/44Z	22.1N 129.4E	P	5 5 700	200	80	120	7	70 140	8	977	289	17 12	CTHC		25				6
51	030/30Z	23.1N 129.3E	P	3 3 700	30	90	340	34	80 330	30	966	279	16 10	CTHC		20				6
52	031/00Z	23.6N 129.3E	LRDR	- 20402														26.1N 127.8E		
53	031/01Z	23.7N 129.6E	SAT	(IR DATA	)			PCN 3	DMSP											
54	031/01Z	23.5N 129.3E	SAT	(IR DATA	)			PCN 3	DMSP											
55	031/01Z	23.6N 129.4E	SAT	(IR DATA	)			PCN 1	DMSP											
56	031/58Z	23.8N 129.4E	SAT	(IR DATA	)			PCN 3	DMSP											
57	031/58Z	23.4N 129.2E	SAT	(IR DATA	)			PCN 3	DMSP											
58	031/58Z	23.8N 129.3E	SAT	(IR DATA	)			PCN 3	DMSP											
59	031/00Z	23.7N 129.2E	LRDR	- 12412														26.1N 127.8E		
60	031/00Z	23.4N 129.2E	LRDR	- 22912														26.1N 127.8E		
61	031/00Z	23.9N 129.2E	LRDR	- 52912														26.1N 127.8E		
62	031/54Z	24.4N 129.2E	P	7 5 700	220	90	140	25	- -	-	966	279	17 14	EYE	SW-NE	25X15				7
63	031/00Z	24.1N 129.2E	LRDR	- 52912														26.1N 127.8E		
64	031/00Z	24.3N 129.2E	LRDR	- 20472														26.1N 127.8E		
65	031/00Z	24.6N 129.2E	LRDR	- 20412														26.1N 127.8E		
66	031/00Z	24.7N 129.3E	LRDR	- 20812														26.1N 127.8E		
67	031/00Z	24.8N 129.3E	LRDR	- 20812														26.1N 127.8E		
68	032/03Z	25.1N 129.3E	P	5 5 700	-	-	-	-	- -	-	948	264	20 15	CTHC		20				8
69	032/00Z	25.4N 129.4E	LRDR	- 20842														26.1N 127.8E		
70	032/00Z	25.6N 129.5E	LRDR	- 20842														26.1N 127.8E		
71	032/04Z	25.8N 129.5E	SAT	(IR DATA	)			PCN 2	DMSP											
72	032/04Z	25.7N 129.7E	SAT	(IR DATA	)			PCN 1	DMSP											
73	032/04Z	25.7N 129.5E	SAT	(IR DATA	)			PCN 1	DMSP											
74	032/57Z	25.6N 129.6E	SAT	(T5.0/5.0-/D1.0/24HRS)				PCN 1	DMSP											
75	032/58Z	25.7N 129.6E	SAT	(T5.0/5.0 /D1.0/24HRS)				PCN 2	DMSP											
76	032/58Z	25.8N 129.7E	SAT	(T5.0/5.0-/D1.0/24HRS)				PCN 1	DMSP											
77	032/00Z	25.9N 129.5E	LRDR	- 20842														26.1N 127.8E		
78	032/00Z	25.4N 129.5E	LRDR	- 52773														26.4N 129.5E		
79	040/00Z	26.3N 129.7E	LRDR	- 20432														26.1N 127.8E		
80	040/00Z	26.3N 129.7E	LRDR	- 50772														26.4N 129.5E		
81	040/00Z	26.4N 129.9E	LRDR	- 20714														26.4N 129.5E		
82	040/00Z	26.4N 129.8E	LRDR	- 21872														26.1N 127.8E		
83	040/36Z	26.4N 129.8E	SAT	(IR DATA	)			PCN 1	DMSP											
84	040/36Z	26.6N 129.8E	SAT	(IR DATA	)			PCN 1	DMSP											
85	040/00Z	26.8N 130.0E	LRDR	- 20814														26.4N 129.5E		
86	040/00Z	26.3N 130.0E	LRDR	- 21932														26.1N 127.8E		
87	040/34Z	26.8N 130.1E	P	1 1 700	310	115	230	10	110 230	10	965	261	17 11	CTHC		25				4
88	040/00Z	27.1N 130.1E	LRDR	- 20813														26.4N 129.5E		
89	040/00Z	27.1N 130.0E	LRDR	- 21912														26.1N 127.8E		
90	040/17Z	27.2N 130.0E	SAT	(IR DATA	)			PCN 1	DMSP											

TYPHOON CORA
FIX POSITIONS FOR CYCLONE NO. 15
0600Z 01 OCT TO 0600Z 06 OCT

FIX NO.	TIME	POSIT	FIX CAT	AGENCY	FIX LVL	MAX OBS FLT LVL WIND DIR	VEL	RAD	RNG	MAX OBS SFC WIND VEL	RAD	RNG	OBS MIN SLP	MIN 700MB HGT	FLT LVL T/TD	EYE FORM	ORIENTATION	EYE DIA	POSIT OF RADAR	MSG NMBR
91	0405Z	27.4N 130.2E		CRDR	- 21842														28.1N 127.8E	
92	0406Z	27.6N 130.5E		CRDR	- 22932														28.4N 129.5E	
93	0407Z	27.8N 130.6E		CRDR	- 22912														28.4N 129.5E	
94	0408Z	28.1N 130.8E		CRDR	- 52773														30.6N 131.0E	
95	0408Z	28.1N 130.8E		CRDR	- 22912														28.4N 129.5E	
96	0409Z	28.1N 130.8E		CRDR	- 51863														30.6N 131.0E	
97	0409Z	28.4N 131.0E		CRDR	- 22912														28.4N 129.5E	
98	0410Z	28.6N 131.0E		CRDR	- 52844														30.6N 131.0E	
99	0410Z	28.6N 131.1E		CRDR	- 22912														28.4N 129.5E	
100	0410Z	28.3N 131.3E	SAT	(IR DATA	)				PCN 2	DMSP										
101	0410Z	28.3N 131.3E	SAT	(IR DATA	)				PCN 1	DMSP										
102	0410Z	28.4N 131.5E	SAT	(IR DATA	)				PCN 2	DMSP										
103	0411Z	28.8N 131.2E	CRDR	- 21912															28.4N 129.5E	
104	0411Z	28.8N 131.1E	CRDR	- 55744															30.6N 131.0E	
105	0411Z	29.1N 131.3E	SAT	(IR DATA	)				PCN 1	DMSP										
106	0412Z	29.4N 131.4E	CRDR	- 55772															28.4N 129.5E	
107	0412Z	29.3N 131.3E	CRDR	- 55713															30.6N 131.0E	
108	0413Z	29.2N 131.8E	CRDR	- 55772															28.4N 129.5E	
109	0413Z	29.1N 131.6E	CRDR	- 55713															30.6N 131.0E	
110	0414Z	29.1N 132.1E	SAT	(IR DATA	)				PCN 1	DMSP										
111	0414Z	29.6N 132.1E	CRDR	- 55772															28.4N 129.5E	
112	0414Z	29.4N 132.0E	CRDR	- 55713															30.6N 131.0E	
113	0415Z	29.7N 132.2E	CRDR	- 55772															28.4N 129.5E	
114	0415Z	29.4N 132.2E	CRDR	- 55713															30.6N 131.0E	
115	0415Z	29.4N 132.3E	P 7 5	700	280	105	180	27	-	-	-	944	260	15 11	CTHC		14			10
116	0416Z	29.1N 132.4E	CRDR	- 55713															30.6N 131.0E	
117	0416Z	29.0N 132.4E	CRDR	- 55772															28.4N 129.5E	
118	0416Z	30.5N 133.5E	CRDR	- 55713															30.6N 131.0E	
119	0420Z	30.7N 134.9E	CRDR	- 55815															30.6N 131.0E	
120	0421Z	30.6N 134.4E	P 5 3	700	140	85	20	25	-	-	-	943	259	18 10	CTHC		15			10
121	0421Z	30.6N 134.4E	CRDR	- 50816															30.6N 131.0E	
122	0421Z	30.3N 134.2E	CRDR	- 50912															33.3N 134.2E	
123	0421Z	31.1N 134.9E	SAT	(IR DATA	)				PCN 2	DMSP										
124	0421Z	31.1N 135.2E	SAT	(IR DATA	)				PCN 1	DMSP										
125	0421Z	31.2N 134.9E	SAT	(T5.0/5.0-/S	/23HRS)				PCN 1	DMSP										
126	0422Z	31.3N 134.8E	CRDR	- 10822															33.3N 134.2E	
127	0422Z	31.3N 134.9E	CRDR	- 62747															30.6N 131.0E	
128	0422Z	31.3N 135.2E	SAT	(T6.0/6.0-/D1.0/24HRS)					PCN 1	DMSP										
129	0423Z	31.3N 135.3E	SAT	(T5.0/5.0-/W	/24HRS)				PCN 1	DMSP										
130	0423Z	31.4N 135.0E	SAT	(IR DATA	)				PCN 1	DMSP										
131	0423Z	31.4N 135.1E	CRDR	- 10932															33.3N 134.2E	
132	0423Z	31.4N 135.2E	CRDR	- 72777															30.6N 131.0E	
133	0500Z	31.6N 135.5E	CRDR	- 10932															33.3N 134.2E	
134	0501Z	32.0N 136.1E	CRDR	- 10932															33.3N 134.2E	
135	0502Z	32.1N 136.7E	CRDR	- 20912															35.4N 138.7E	
136	0502Z	32.1N 136.7E	CRDR	- 10912															33.3N 134.2E	
137	0502Z	32.2N 136.8E	SAT	(IR DATA	)				PCN 1	DMSP										
138	0502Z	32.3N 136.5E	SAT	(IR DATA	)				PCN 1	DMSP										
139	0503Z	32.4N 137.1E	CRDR	- 10912															35.4N 138.7E	
140	0504Z	32.4N 137.2E	CRDR	- 11912															33.3N 134.2E	
141	0504Z	32.4N 137.4E	P 5 5	700	340	100	240	35	120	140	10	946	262	20 13	CTHC		30			11
142	0504Z	32.6N 137.5E	CRDR	- 10912															33.3N 134.2E	
143	0504Z	32.6N 137.6E	CRDR	- 11842															35.4N 138.7E	
144	0505Z	32.4N 138.3E	CRDR	- 10872															35.4N 138.7E	
145	0505Z	33.1N 138.8E	CRDR	- 11911															35.4N 138.7E	
146	0507Z	33.3N 139.3E	CRDR	- 12911															35.4N 138.7E	
147	0508Z	33.7N 140.6E	P 1 2	700	360	100	300	18	-	-	-	946	263	18 12	CTHC		20			12
148	0508Z	33.6N 140.7E	CRDR	- 11912															35.4N 138.7E	
149	0510Z	34.0N 141.6E	SAT	(IR DATA	)				PCN 1	DMSP										
150	0511Z	34.1N 142.1E	SAT	(IR DATA	)				PCN 1	DMSP										
151	0511Z	34.1N 142.1E	SAT	(IR DATA	)				PCN 1	DMSP										
152	0512Z	34.1N 142.5E	CRDR	- 20941															35.4N 138.7E	
153	0514Z	34.7N 143.8E	P 1 2	700	210	110	130	12	-	-	-	953	268	20 16	CTHC		15			12
154	0522Z	35.1N 149.8E	SAT	(T4.0/5.0 /W2.0/24HRS)					PCN 3	DMSP										
155	0522Z	35.1N 151.0E	SAT	(T3.0/4.0-/W2.0/24HRS)					PCN 5	DMSP										
156	0522Z	35.1N 149.8E	SAT	(T3.0/4.0-/W2.0/24HRS)					PCN 5	DMSP										

TROPICAL STORM DOMIS
FIX POSITIONS FOR CYCLONE NO. 16
1800Z 03 OCT TO 0000Z 06 OCT

FIX NO.	TIME	POSIT	FIX CAT	ACCRY NAV-MET	FIX LVL	MAX OBS FLT LVL WIND DIR	VEL	RAD	MAX OBS SFC WIND RNG	VEL	RAD	RNG	OBS MIN SLP	MIN 700MB HGT	FLT LVL T1/TO	EYE FORM	ORIENTATION	EYE DIA	POSIT OF RADAR	MSN NMBR
1	0112342	9.8N 117.2E	SAT	(IR DATA					PCN 5	DMSP										
2	0223582	14.3N 110.8E	SAT	(T 0/1.0 /	/	HRS)			PCN 5	DMSP										
3	0300572	14.4N 111.4E	SAT	(IR DATA					PCN 5	DMSP										
4	0300572	14.5N 111.9E	SAT	(T1.0/1.0 /	/	HRS)			PCN 3	DMSP										
5	0304362	14.6N 112.2E	SAT	(IR DATA					PCN 5	DMSP										
6	0311012	15.0N 112.8E	SAT	(IR DATA					PCN 5	DMSP										
7	0313392	14.4N 111.0E	SAT	(IR DATA					PCN 5	DMSP										
8	0313392	14.6N 112.2E	SAT	(IR DATA					PCN 5	DMSP										
9	0323462	15.6N 111.1E	SAT	(IR DATA					PCN 6	DMSP										
10	0323462	16.6N 111.6E	SAT	(T2.5/2.5 /W1.5/22HRS)					PCN 6	DMSP										
11	0400392	16.0N 113.3E	SAT	(T2.0/2.0 /D2.0/25HRS)					PCN 3	DMSP										
12	0400392	16.4N 111.4E	SAT	(IR DATA					PCN 4	DMSP										
13	0404172	16.3N 111.7E	SAT	(IR DATA					PCN 3	DMSP										
14	0413202	18.0N 112.0E	SAT	(IR DATA					PCN 5	DMSP										
15	0413202	16.1N 111.3E	SAT	(IR DATA					PCN 6	DMSP										
16	0423342	19.4N 112.7E	SAT	(IR DATA					PCN 5	DMSP										
17	0423342	19.2N 112.0E	SAT	(T2.0/3.0 /W0.5/24HRS)					PCN 4	DMSP										
18	0500202	19.4N 112.8E	SAT	(T3.0/3.0 /	/	HRS)			PCN 5	DMSP										
19	0500202	19.3N 112.6E	SAT	(T3.5/3.5 /D1.5/24HRS)					PCN 3	DMSP										
20	0503582	19.3N 112.7E	SAT	(IR DATA					PCN 5	DMSP										
21	0503592	19.4N 112.7E	SAT	(IR DATA					PCN 3	DMSP										
22	0512002	20.6N 112.3E	LRDR	- 1091/															22.3N 114.2E	
23	0512192	20.8N 112.6E	SAT	(IR DATA					PCN 5	DMSP										
24	0513002	20.8N 112.4E	LRDR	- 1191/															22.3N 114.2E	
25	0513022	20.7N 112.6E	SAT	(IR DATA					PCN 5	DMSP										
26	0513022	20.9N 112.7E	SAT	(IR DATA					PCN 5	DMSP										
27	0514002	21.0N 112.4E	LRDR	- 1091/															22.3N 114.2E	
28	0515002	21.2N 112.4E	LRDR	- 1191/															22.3N 114.2E	
29	0519002	22.0N 112.6E	LRDR	- 1082/															22.3N 114.2E	
30	0519402	23.4N 112.6E	SAT	(T4.0/4.0-/D2.0/24HRS)					PCN 4	DMSP										
31	0520002	22.2N 112.7E	LRDR	- 1072/															22.3N 114.2E	
32	0521002	22.4N 112.7E	LRDR	- 1055/															22.3N 114.2E	
33	0523002	22.8N 112.8E	LRDR	- 2505/															22.3N 114.2E	
34	0523222	22.5N 113.0E	SAT	(IR DATA					PCN 5	DMSP										
35	0600022	22.4N 112.9E	SAT	(T3.0/3.0 /S	/20HRS)				PCN 3	DMSP										
36	0600022	22.4N 113.0E	SAT	(T3.0/3.0-/W0.5/24HRS)					PCN 5	DMSP										
37	0603392	23.8N 113.0E	SAT	(IR DATA					PCN 3	DMSP										
38	0612442	25.2N 115.1E	SAT	(IR DATA					PCN 5	DMSP										

TYPHOON ELSIE
FIX POSITIONS FOR CYCLONE NO. 17
0000Z 09 OCT TO 0000Z 15 OCT

FIX NO.	TIME	POSIT	FIX CAT	ACCRY NAV-MET	FIX LVL	MAX OBS FLT LVL WIND DIR	VEL	RAD	MAX OBS SFC WIND RNG	VEL	RAD	RNG	OBS MIN SLP	MIN 700MB HGT	FLT LVL T1/TO	EYE FORM	ORIENTATION	EYE DIA	POSIT OF RADAR	MSN NMBR
1	0623442	7.7N 145.3E	SAT	(T 0/1.0 /	/	HRS)			PCN 5	DMSP										
2	0711102	8.0N 142.6E	SAT	(IR DATA					PCN 6	DMSP										
3	0723262	10.4N 141.8E	SAT	(T1.0/1.0 /D1.0/24HRS)					PCN 5	DMSP										
4	0724262	9.0N 143.6E	SAT	(T 0/1.0 /	/	HRS)			PCN 5	DMSP										
5	0810012	10.4N 141.5E	SAT	(IR DATA					PCN 5	DMSP										
6	0810012	10.4N 141.4E	SAT	(IR DATA					PCN 5	DMSP										
7	0812072	10.6N 141.3E	SAT	(IR DATA					PCN 5	DMSP										
8	0812072	10.4N 141.3E	SAT	(IR DATA					PCN 5	DMSP										
9	0821042	12.4N 138.4E	SAT	(IR DATA					PCN 5	DMSP										
10	0821042	13.0N 139.0E	SAT	(T1.0/1.0 /	/	HRS)			PCN 6	DMSP										
11	0822492	12.5N 138.3E	P	3 5 1500	170	35	100	210	35	150	140	1003	-	24	24	-	- -	-		1
12	0823072	12.3N 138.5E	SAT	(T1.0/1.0 /S	/24HRS)				PCN 3	DMSP										
13	0823072	12.4N 138.5E	SAT	(T1.0/1.0 /D1.0/24HRS)					PCN 5	DMSP										
14	0902302	12.7N 136.9E	P	2 10 700	130	35	30	120	40	60	120	1001	309	11	8	-	- -	-		1
15	0904442	13.1N 137.9E	SAT	(IR DATA					PCN 5	DMSP										
16	0904292	13.0N 135.4E	P	12 10 700	160	35	60	110	35	60	100	999	308	13	12	-	- -	-		2
17	0904492	13.5N 136.9E	SAT	(IR DATA					PCN 5	DMSP										
18	0909492	13.1N 135.4E	SAT	(IR DATA					PCN 5	DMSP										
19	0910362	15.0N 135.5E	SAT	(IR DATA					NOAA-4			(CONF 02)								
20	0911492	14.2N 135.5E	SAT	(IR DATA					PCN 5	DMSP										
21	0911492	13.1N 135.8E	SAT	(IR DATA					PCN 5	DMSP										
22	0914402	14.3N 135.3E	P	10 5 700	320	40	240	75	-	-	-	999	308	13	9	-	- -	-		2
23	0921582	16.0N 134.0E	P	3 5 700	140	60	60	5	70	60	5	991	301	14	11	CTRC		20		3
24	0922332	15.1N 133.3E	SAT	(IR DATA					PCN 5	DMSP										
25	0922342	16.0N 133.3E	SAT	(T3.0/3.0 /D2.0/24HRS)					PCN 3	DMSP										
26	0922492	16.1N 133.3E	SAT	(IR DATA					PCN 3	DMSP										
27	0923492	15.9N 133.3E	SAT	(T3.5/3.5 /	/	HRS)			PCN 3	DMSP										
28	0923492	16.1N 133.4E	SAT	(T3.0/3.0+/D2.0/24HRS)					PCN 3	DMSP										
29	1000402	16.4N 132.9E	SAT	(T2.5/2.5 /	/	HRS)			PCN 5	DMSP										
30	1000452	16.1N 133.3E	SAT	(T3.0/3.0 /D2.0/25HRS)					NOAA-4			(CONF 01)								
31	1003002	16.4N 132.6E	P	3 5 700	160	45	30	15	70	30	15	989	300	14	10	EYE	SE-NW	15X10		3
32	1004072	16.7N 132.5E	SAT	(IR DATA					PCN 3	DMSP										
33	1004072	16.6N 132.3E	SAT	(IR DATA					PCN 3	DMSP										
34	1004072	16.7N 131.5E	SAT	(T3.5/3.5 /	/	HRS)			PCN 5	DMSP										
35	1004222	17.1N 131.0E	P	5 3 700	150	45	80	200	40	110	55	985	296	16	11	EYE	SE-NW	40X30		4
36	1011182	17.5N 130.6E	SAT	(IR DATA					PCN 5	DMSP										
37	1011192	17.4N 130.6E	SAT	(IR DATA					PCN 5	DMSP										
38	1011302	17.6N 130.5E	SAT	(IR DATA					PCN 5	DMSP										
39	1011312	17.7N 130.6E	SAT	(IR DATA					PCN 5	DMSP										

TYPHOON ELSIE
FIX POSITIONS FOR CYCLONE NO. 17
0000Z 09 OCT TO 0000Z 15 OCT

FIX NO.	TIME	POSIT	FIX CAT	ACCNY NAV-MET	FIX LVL	MAX OBS FLT LVL WIND DIR	VEL	BRG	RNG	MAX OBS SFC WIND VEL	BRG	RNG	OBS MIN SLP	MIN 700MB HGT	FLT LVL TI/TO	EYE FORM	ORIENTATION	EYE DIA	POSIT OF RADAR	MSP NMHR
40	1014122	17.9N 130.2E	SAT	(IR DATA)					PCN 5 DMSP											
41	1014302	17.4N 129.9E	P	5 3	700	170	65	90	25	-	-	-	983	294	17 15	ELIP	SW-NE	40X30		4
42	1022522	18.1N 128.2E	P	15 5	700	150	90	50	10	-	-	-	973	286	13 11	CTHC		10		5
43	1022222	18.1N 128.2E	SAT	(IR DATA)					PCN 3 DMSP											
44	1022222	18.1N 128.0E	SAT	(IR DATA)					PCN 3 DMSP											
45	1100122	18.2N 127.4E	SAT	(T4.0/4.0 /D1.0/24HRS)					PCN 1 DMSP											
46	1100122	18.2N 127.6E	SAT	(T5.0/5.0 /D1.5/25HRS)					PCN 1 DMSP											
47	1100122	18.2N 127.4E	SAT	(T4.0/4.0 /D1.0/25HRS)					PCN 1 DMSP											
48	1103482	18.3N 126.5E	SAT	(IR DATA)					PCN 1 DMSP											
49	1103482	18.6N 126.7E	SAT	(IR DATA)					PCN 1 DMSP											
50	1103482	18.5N 126.7E	SAT	(IR DATA)					PCN 1 DMSP											
51	1103482	18.7N 126.7E	SAT	(T4.5/4.5 /D1.0/24HRS)					PCN 1 DMSP											
52	1108302	19.0N 125.6E	P	5 5	700	90	135	20	15	120	50	15	926	244	26 13	CTHC		15		6
53	1111072	19.2N 125.2E	SAT	(IR DATA)					PCN 1 DMSP											
54	1111072	19.1N 125.4E	SAT	(IR DATA)					PCN 2 DMSP											
55	1112542	19.4N 124.9E	SAT	(IR DATA)					PCN 1 DMSP											
56	1112542	19.6N 124.8E	SAT	(IR DATA)					PCN 1 DMSP											
57	1114302	19.4N 124.7E	P	5 4	700	330	100	250	25	-	-	-	904	225	27 12	CTHC		9		6
58	1122092	20.0N 123.3E	SAT	(IR DATA)					PCN 1 DMSP											
59	1122092	20.0N 123.4E	SAT	(IR DATA)					PCN 1 DMSP											
60	1123542	20.1N 123.0E	SAT	(T6.0/6.0-/D2.0/24HRS)					PCN 1 DMSP											
61	1123542	20.3N 123.0E	SAT	(T6.0/6.0-/D2.0/24HRS)					PCN 1 DMSP											
62	1200052	20.2N 123.1E	P	2 2	700	320	80	210	35	100	210	12	900	222	25 12	CONC	-	12		7
63	1203292	20.3N 122.3E	SAT	(IR DATA)					PCN 1 DMSP											
64	1203292	20.3N 122.6E	SAT	(IR DATA)					PCN 1 DMSP											
65	1203402	20.4N 122.5E	P	2 2	700	150	130	50	12	130	50	12	903	224	20 13	CONC	-	10		7
66	1206002	20.7N 122.3E	LRDR	-															25.1N 121.0E	
67	1207002	20.8N 122.3E	LRDR	-															25.1N 121.0E	
68	1208002	20.8N 122.2E	LRDR	-															25.1N 121.0E	
69	1209002	20.8N 122.0E	LRDR	-															25.1N 121.0E	
70	1209232	20.8N 122.0E	P	10 5	700	300	115	220	15	130	220	15	912	232	18 12	CONC	-	15		8
71	1210002	20.8N 121.8E	LRDR	- 46///															22.6N 120.3E	
72	1210002	20.9N 121.8E	LRDR	-															25.1N 121.0E	
73	1210542	20.3N 121.5E	SAT	(IR DATA)					PCN 1 DMSP											
74	1210542	21.0N 121.6E	SAT	(IR DATA)					PCN 1 DMSP											
75	1211002	21.0N 121.7E	LRDR	-															25.1N 121.0E	
76	1212002	21.1N 121.5E	LRDR	-															25.1N 121.0E	
77	1212352	21.0N 121.2E	SAT	(IR DATA)					PCN 1 DMSP											
78	1212352	21.0N 121.4E	SAT	(IR DATA)					PCN 1 DMSP											
79	1213002	21.0N 121.3E	LRDR	- 10785															24.0N 121.0E	
80	1213002	21.0N 121.2E	LRDR	- 1169/															22.6N 120.3E	
81	1213202	21.1N 120.5E	SAT	(IR DATA)					NOAA-4			(CONF 01)								
82	1214002	21.1N 121.3E	LRDR	-															25.1N 121.0E	
83	1214002	21.0N 121.1E	LRDR	- 10616															24.0N 121.0E	
84	1214002	21.0N 121.0E	LRDR	- 10382															22.6N 120.3E	
85	1214302	20.8N 121.0E	P	5 2	700	290	100	200	10	-	-	-	923	241	18 11	CTHC		8		8
86	1216002	21.1N 121.0E	LRDR	-															25.1N 121.0E	
87	1216002	21.2N 120.9E	LRDR	-															25.1N 121.0E	
88	1216002	21.2N 120.7E	LRDR	- 1031/															22.6N 120.3E	
89	1217002	21.1N 120.4E	LRDR	-															25.1N 121.0E	
90	1217002	21.2N 120.6E	LRDR	- 1141/															22.6N 120.3E	
91	1218002	21.3N 120.5E	LRDR	- 1063/															22.6N 120.3E	
92	1218002	21.3N 120.4E	LRDR	-															25.1N 121.0E	
93	1220002	21.3N 120.1E	LRDR	- 1027/															22.4N 120.3E	
94	1220002	21.3N 120.2E	LRDR	-															25.1N 121.0E	
95	1221002	21.3N 119.9E	LRDR	- 1021/															22.6N 120.3E	
96	1221002	21.4N 120.0E	LRDR	-															25.1N 121.0E	
97	1221572	21.2N 119.7E	SAT	(IR DATA)					PCN 1 DMSP											
98	1221572	21.1N 119.8E	SAT	(IR DATA)					PCN 3 DMSP											
99	1222002	21.3N 119.8E	LRDR	-															25.1N 121.0E	
100	1222002	21.4N 119.8E	LRDR	- 11212															22.4N 120.3E	
101	1223002	21.4N 119.7E	LRDR	-															25.1N 121.0E	
102	1223362	21.4N 119.4E	SAT	(T5.0/6.0-/W1.0/24HRS)					PCN 3 DMSP											
103	1223362	21.2N 119.5E	SAT	(T5.0/6.0-/W1.0/24HRS)					PCN 3 DMSP											
104	1300002	21.5N 119.5E	LRDR	-															25.1N 121.0E	
105	1301002	21.4N 119.3E	LRDR	-															25.1N 121.0E	
106	1301172	21.6N 119.4E	SAT	(IR DATA)					PCN 3 DMSP											
107	1301172	21.6N 119.5E	SAT	(T5.5/5.5 / / HRS)					PCN 1 DMSP											
108	1301172	21.5N 119.0E	SAT	(T6.0/6.0 / / HRS)					PCN 5 DMSP											
109	1302002	21.4N 119.2E	LRDR	-															25.1N 121.0E	
110	1303002	21.5N 118.9E	LRDR	-															25.1N 121.0E	
111	1304522	21.4N 118.8E	SAT	(IR DATA)					PCN 3 DMSP											
112	1304522	21.7N 118.9E	SAT	(IR DATA)					PCN 1 DMSP											
113	1312242	21.5N 117.6E	SAT	(IR DATA)					PCN 1 DMSP											
114	1312242	21.4N 118.2E	SAT	(IR DATA)					PCN 2 DMSP											
115	1313592	21.4N 117.0E	SAT	(IR DATA)					PCN 1 DMSP											
116	1320002	21.8N 115.9E	LRDR	- 1041/															22.3N 114.2E	
117	1323272	21.8N 115.4E	SAT	(IR DATA)					PCN 1 DMSP											
118	1323272	22.0N 114.8E	SAT	(T5.0/5.5 /W0.5/19HRS)					PCN 3 DMSP											
119	1400592	21.3N 115.0E	SAT	(T4.0/5.0-/W1.0/25HRS)					PCN 3 DMSP											
120	1404342	21.3N 114.4E	SAT	(IR DATA)					PCN 3 DMSP											
121	1404342	21.7N 114.6E	SAT	(IR DATA)					PCN 3 DMSP											
122	1405002	21.9N 114.2E	LRDR	- 45/5/															22.3N 114.2E	
123	1412122	21.4N 113.3E	SAT	(IR DATA)					PCN 3 DMSP											
124	1413162	23.1N 113.5E	SAT	(IR DATA)					NOAA-4			(CONF 02)								
125	1413402	21.4N 113.2E	SAT	(IR DATA)					PCN 3 DMSP											
126	1423152	22.1N 111.6E	SAT	(IR DATA)					PCN 3 DMSP											
127	1500402	22.4N 111.5E	SAT	(T2.5/3.5-/W1.5/24HRS)					PCN 3 DMSP											

TROPICAL DEPRESSION 18
FIX POSITIONS FOR CYCLONE NO. 18
0600Z 15 OCT TO 0600Z 17 OCT

FIX NO.	TIME	POSIT	FIX CAT	ACCRY NAV-MET	FIX LVL	MAX OBS FLT LVL WIND DIR	VEL	RRG	RNG	MAX OBS SFC WIND VEL	RRG	RNG	OBS MIN SLP	MIN 700MB HGT	FLT LVL TI/TO	EYE FORM	ORIEN-TATION	EYE DIA	POSIT OF RADAR	MSN NMBR
1	1321172	11.1N 144.5E	SAT	/T 0/1.0 / / HRS)						PCN 5 DMSP										
2	1402522	11.1N 143.8E	SAT	/IR DATA)						PCN 6 DMSP										
3	1411592	12.5N 141.8E	SAT	/IR DATA)						PCN 5 DMSP										
4	1421432	13.0N 139.4E	SAT	/IR DATA)						PCN 5 DMSP										
5	1422592	13.1N 139.5E	SAT	/T1.0/1.0 /D1.0/24HRS)						PCN 5 DMSP										
6	1422592	14.7N 140.9E	SAT	/T 0/1.0 / / HRS)						PCN 5 DMSP										
7	1502362	13.7N 139.6E	SAT	/IR DATA)						PCN 5 DMSP										
8	1504172	13.7N 137.1E	P	3 5 1500 120 40 60						50 40 60	50	1004	-	25 23	-	- -	-			1
9	1507042	12.4N 135.8E	F	3 3 1500 80 25 300						100 20 270	35	1002	-	24 24	-	- -	-			1
10	1511182	13.7N 138.1E	SAT	/IR DATA)						PCN 5 DMSP										
11	1511182	13.4N 138.5E	SAT	/IR DATA)						PCN 5 DMSP										
12	1511182	13.4N 136.8E	SAT	/IR DATA)						PCN 5 DMSP										
13	1511402	13.4N 137.0E	SAT	/IR DATA)						PCN 5 DMSP										
14	1511402	13.4N 136.4E	SAT	/IR DATA)						PCN 5 DMSP										
15	1511402	13.4N 137.0E	SAT	/IR DATA)						PCN 5 DMSP										
16	1521212	14.4N 134.0E	SAT	/IR DATA)						PCN 5 DMSP										
17	1521212	13.4N 133.7E	SAT	/IR DATA)						PCN 5 DMSP										
18	1600222	14.0N 132.9E	SAT	/T1.0/1.0 /S /25HRS)						PCN 5 DMSP										
19	1600222	14.3N 132.3E	SAT	/T 0/1.0 /S /25HRS)						PCN 5 DMSP										
20	1600562	13.4N 132.0E	SAT	/IR DATA)						PCN 5 DMSP										
21	1600572	13.4N 131.8E	SAT	/IR DATA)						PCN 5 DMSP										
22	1700032	14.3N 131.6E	SAT	/T2.0/2.0 /D1.0/24HRS)						PCN 5 DMSP										
23	1703372	14.5N 131.2E	SAT	/IR DATA)						PCN 5 DMSP										
24	1705542	14.5N 130.2E	SAT	/IR DATA)						PCN 5 DMSP										
25	1912052	18.0N 122.2E	SAT	/IR DATA)						NOAA-4										

TYPHOON FLOSSIE
FIX POSITIONS FOR CYCLONE NO. 19
0000Z 20 OCT TO 1200Z 23 OCT

FIX NO.	TIME	POSIT	FIX CAT	ACCRY NAV-MET	FIX LVL	MAX OBS FLT LVL WIND DIR	VEL	RRG	RNG	MAX OBS SFC WIND VEL	RRG	RNG	OBS MIN SLP	MIN 700MB HGT	FLT LVL TI/TO	EYE FORM	ORIEN-TATION	EYE DIA	POSIT OF RADAR	MSN NMBR
1	1703382	14.8N 124.8E	SAT	/IR DATA)						PCN 5 DMSP										
2	1711462	14.2N 126.0E	SAT	/IR DATA)						PCN 5 DMSP										
3	1711562	15.5N 125.4E	SAT	/IR DATA)						PCN 6 DMSP										
4	1712452	15.5N 125.3E	SAT	/IR DATA)						PCN 5 DMSP										
5	1712452	15.5N 125.5E	SAT	/IR DATA)						PCN 6 DMSP										
6	1722382	15.5N 126.7E	SAT	/IR DATA)						PCN 5 DMSP										
7	1722392	14.8N 125.0E	SAT	/IR DATA)						PCN 5 DMSP										
8	1723452	14.2N 125.5E	SAT	/T1.0/1.0-/ / HRS)						PCN 5 DMSP										
9	1723452	14.5N 125.3E	SAT	/T1.0/1.0-/ / HRS)						PCN 5 DMSP										
10	1723452	14.4N 125.2E	SAT	/T1.5/1.5 / / HRS)						PCN 5 DMSP										
11	1800272	14.0N 122.0E	SAT	/T2.0/2.0 /D0.5/25HRS)						NOAA-4			(CONF 01)							
12	1804192	14.2N 124.9E	SAT	/IR DATA)						PCN 5 DMSP										
13	1803192	15.1N 122.8E	SAT	/IR DATA)						PCN 5 DMSP										
14	1807002	15.3N 126.5E	LAND	- 10001															14.3N 120.0E	
15	1803002	15.1N 122.6E	LAND	-															14.3N 120.0E	
16	1809002	15.4N 122.1E	LAND	- 21720															14.0N 121.0E	
17	1811242	16.1N 121.7E	SAT	/IR DATA)						PCN 5 DMSP										
18	1812272	16.3N 121.5E	SAT	/IR DATA)						PCN 5 DMSP										
19	1814042	16.5N 120.2E	SAT	/IR DATA)						NOAA-4			(CONF 01)							
20	1822262	18.4N 119.8E	SAT	/T1.0/1.0 /S /23HRS)						PCN 5 DMSP										
21	1822272	18.5N 120.3E	SAT	/IR DATA)						PCN 6 DMSP										
22	1900562	18.2N 120.8E	SAT	/T1.0/1.5 /W0.5/25HRS)						PCN 5 DMSP										
23	1901212	17.9N 121.0E	SAT	/T2.0/2.0 /S /25HRS)						NOAA-4			(CONF 01)							
24	1904422	18.7N 120.5E	SAT	/T1.0/1.0 / / HRS)						PCN 5 DMSP										
25	1904422	18.8N 119.9E	SAT	/IR DATA)						PCN 5 DMSP										
26	1910492	16.2N 118.9E	P	20 10 1500 90 40 360						60 40 360	60		994	-	26 23	-	- -	-		1
27	1911122	18.1N 120.4E	SAT	/IR DATA)						PCN 5 DMSP										
28	1911122	17.6N 119.7E	SAT	/IR DATA)						PCN 6 DMSP										
29	1912052	18.0N 122.2E	SAT	/IR DATA)						NOAA-4			(CONF 01)							
30	1912082	18.4N 120.3E	SAT	/IR DATA)						PCN 5 DMSP										
31	1912082	18.4N 121.3E	SAT	/IR DATA)						PCN 5 DMSP										
32	1922142	15.4N 117.5E	SAT	/IR DATA)						PCN 5 DMSP										
33	1922152	15.4N 117.3E	SAT	/T2.0/2.0 /D1.0/24HRS)						PCN 5 DMSP										
34	2003212	15.4N 117.3E	SAT	/T2.5/1.5 /D0.5/23HRS)						NOAA-4			(CONF 01)							
35	2000502	15.4N 118.1E	SAT	/T2.0/2.0 /D1.0/20HRS)						PCN 5 DMSP										
36	2000502	15.9N 116.5E	SAT	/T2.0/2.0 /D1.0/24HRS)						PCN 5 DMSP										
37	2001162	15.5N 116.0E	SAT	/IR DATA)						NOAA-4			(CONF 01)							
38	2004232	16.2N 116.3E	SAT	/IR DATA)						PCN 5 DMSP										
39	2004232	16.4N 116.1E	SAT	/IR DATA)						PCN 5 DMSP										
40	2005572	15.1N 115.9E	P	15 10 1500 330 45 220						25 45 220	25		997	-	26 23	-	- -	-		2
41	2004402	15.4N 116.0E	P	15 10 700 - - -						- - -	-		995	305	12 -	-	- -	-		2
42	2011002	15.4N 115.9E	SAT	/IR DATA)						PCN 5 DMSP										
43	2011002	15.5N 116.5E	SAT	/IR DATA)						PCN 5 DMSP										
44	2011002	16.3N 115.8E	SAT	/IR DATA)						PCN 6 DMSP										
45	2012552	16.4N 115.9E	SAT	/IR DATA)						NOAA-4			(CONF 01)							
46	2014312	15.4N 116.2E	SAT	/IR DATA)						PCN 5 DMSP										
47	2013312	15.1N 116.7E	SAT	/IR DATA)						PCN 6 DMSP										
48	2017002	15.5N 115.9E	F	7 10 700 320 40 220						30 - -	-		984	299	14 11	-	- -	-		3
49	2021552	15.5N 116.0E	F	7 10 700 50 50 320						65 - -	-		984	300	14 11	-	- -	-		3
50	2021442	15.5N 115.6E	SAT	/IR DATA)						PCN 6 DMSP										

TYPHOON FLOSSIE
FIX POSITIONS FOR CYCLONE NO. 19
00002 20 OCT TO 12002 23 OCT

FIX NO.	TIME	POSIT	FIX CAT	ACCRY NAV-MET	FIX LVL	MAX OBS WIND FLT LVL DIR	MAX OBS WIND VEL	MAX OBS WIND BRG	MAX OBS WIND RNG	SFC WIND VEL	SFC WIND BRG	SFC WIND RNG	OBS MIN SLP	MIN 700MB HGT	FLT LVL TI/TO	EYE FORM	ORIENTATION	EYE DIA	POSIT OF RADAR	MSN NMBR
51	2024452	15.7N 115.8E	SAT	(IR DATA)						PCN 4	DMSP									
52	2100312	15.5N 115.7E	SAT	(T3.0/3.0 /01.0/24HRS)						PCN 5	DMSP									
53	2100322	15.2N 115.8E	SAT	(T3.0/3.0 /01.0/24HRS)						PCN 3	DMSP									
54	2100322	15.7N 115.9E	SAT	(T3.0/3.0 /01.0/24HRS)						PCN 3	DMSP									
55	2104042	15.8N 116.2E	SAT	(IR DATA)						PCN 5	DMSP									
56	2104042	16.1N 116.5E	SAT	(IR DATA)						PCN 5	DMSP									
57	2104052	16.3N 116.6E	SAT	(IR DATA)						PCN 5	DMSP									
58	2104052	16.7N 116.5E	P	15 15 700 290 50 200			50	50	200	60	984	295	13 11	-	- -	-				4
59	2110472	16.4N 116.6E	SAT	(IR DATA)						PCN 5	DMSP									
60	2112022	16.9N 115.0E	SAT	(IR DATA)						NOAA-4			(CONF 02)							
61	2114132	16.9N 116.8E	SAT	(IR DATA)						PCN 3	DMSP									
62	2114132	16.7N 115.3E	SAT	(IR DATA)						PCN 5	DMSP									
63	2114402	17.5N 116.6E	P	15 10 700 140 55 60			60	-	-	-	983	294	14 12	-	- -	-				4
64	2120452	18.3N 115.2E	P	5 5 700 120 75 100			55	-	-	-	978	290	15 12	CTHC		40				5
65	2124332	18.3N 115.7E	SAT	(IR DATA)						PCN 4	DMSP									
66	2124332	18.1N 116.2E	SAT	(IR DATA)						PCN 6	DMSP									
67	2200132	18.4N 115.2E	SAT	(T4.0/4.0 /01.0/24HRS)						PCN 5	DMSP									
68	2200132	18.1N 115.2E	SAT	(T4.0/4.0-/01.0/24HRS)						PCN 3	DMSP									
69	2200132	18.7N 116.0E	SAT	(T4.0/4.0-/01.0/25HRS)						PCN 5	DMSP									
70	2204102	17.9N 115.5E	SAT	(T3.5/3.5 /01.0/25HRS)						NOAA-4			(CONF 01)							
71	2202302	18.6N 114.7E	P	5 2 700 120 70 50			70	60	60	60	976	287	17 11	CTHC		40				5
72	2204462	18.6N 114.7E	SAT	(IR DATA)						PCN 5	DMSP									
73	2204462	18.5N 114.8E	SAT	(IR DATA)						PCN 3	DMSP									
74	2204462	18.1N 114.5E	SAT	(IR DATA)						PCN 5	DMSP									
75	2212172	18.8N 113.6E	SAT	(IR DATA)						PCN 3	DMSP									
76	2212172	19.3N 113.9E	SAT	(IR DATA)						PCN 3	DMSP									
77	2212542	19.0N 113.2E	SAT	(IR DATA)						PCN 3	DMSP									
78	2212562	19.1N 113.1E	SAT	(IR DATA)						NOAA-4			(CONF 02)							
79	2214002	20.4N 113.1E	LRDR	- 1078/															22.3N 114.2E	
80	2222172	20.5N 112.0E	SAT	(IR DATA)						PCN 4	DMSP									
81	2223212	20.2N 111.9E	SAT	(IR DATA)						PCN 4	DMSP									
82	2301162	20.0N 111.5E	SAT	(T3.0/4.0-/W0.5/23HRS)						NOAA-4			(CONF 02)							
83	2301362	20.5N 111.3E	SAT	(T3.0/4.0-/W1.0/25HRS)						PCN 5	DMSP									
84	2301372	20.4N 112.2E	SAT	(T4.0/4.0-/S /25HRS)						PCN 4	DMSP									
85	2305092	21.0N 111.0E	SAT	(IR DATA)						PCN 5	DMSP									
86	2305092	21.2N 110.3E	SAT	(IR DATA)						PCN 6	DMSP									
87	2312052	21.9N 109.0E	SAT	(IR DATA)						PCN 5	DMSP									
88	2312052	22.0N 109.0E	SAT	(IR DATA)						PCN 6	DMSP									
89	2314512	22.4N 108.9E	SAT	(IR DATA)						NOAA-4			(CONF 01)							
90	2314182	22.1N 108.6E	SAT	(IR DATA)						PCN 5	DMSP									
91	2314182	22.4N 108.6E	SAT	(IR DATA)						PCN 6	DMSP									

TROPICAL STORM GRACE
FIX POSITIONS FOR CYCLONE NO. 20
00002 25 OCT TO 06002 02 NOV

FIX NO.	TIME	POSIT	FIX CAT	ACCRY NAV-MET	FIX LVL	MAX OBS WIND FLT LVL DIR	MAX OBS WIND VEL	MAX OBS WIND BRG	MAX OBS WIND RNG	SFC WIND VEL	SFC WIND BRG	SFC WIND RNG	OBS MIN SLP	MIN 700MB HGT	FLT LVL TI/TO	EYE FORM	ORIENTATION	EYE DIA	POSIT OF RADAR	MSN NMBR
1	2104142	21.4N 126.2E	SAT	(IR DATA)						PCN 5	DMSP									
2	2110472	22.0N 127.1E	SAT	(IR DATA)						PCN 5	DMSP									
3	2200132	24.3N 126.4E	SAT	(T 0/1.0 / / HRS)						PCN 3	DMSP									
4	2203462	24.4N 126.4E	SAT	(IR DATA)						PCN 5	DMSP									
5	2210352	25.0N 126.4E	SAT	(IR DATA)						PCN 5	DMSP									
6	2224552	24.1N 127.3E	SAT	(T 0/1.0 /S /24HRS)						PCN 3	DMSP									
7	2323372	20.8N 129.7E	SAT	(T2.0/2.0-/D2.0/24HRS)						PCN 5	DMSP									
8	2400092	20.3N 129.5E	SAT	(IR DATA)						PCN 5	DMSP									
9	2410102	18.4N 130.0E	SAT	(IR DATA)						PCN 5	DMSP									
10	2410112	17.5N 128.8E	SAT	(IR DATA)						PCN 5	DMSP									
11	2412182	18.1N 129.1E	SAT	(IR DATA)						PCN 5	DMSP									
12	2412182	18.3N 129.6E	SAT	(IR DATA)						PCN 5	DMSP									
13	2421142	19.0N 133.5E	SAT	(IR DATA)						PCN 5	DMSP									
14	2422562	18.2N 128.0E	SAT	(T2.0/2.0 / / HRS)						PCN 5	DMSP									
15	2422562	17.5N 128.0E	SAT	(T1.0/1.0 / / HRS)						PCN 6	DMSP									
16	2423182	18.3N 128.0E	SAT	(T2.0/2.0 /S /24HRS)						PCN 3	DMSP									
17	2423182	18.3N 128.1E	SAT	(T1.0/1.0 / / HRS)						PCN 5	DMSP									
18	2502182	18.0N 128.3E	P	3 2 700 350 50 270			25	70	160	5	996	305	19 10	CTHC		18				1
19	2502502	17.9N 127.7E	SAT	(IR DATA)						PCN 5	DMSP									
20	2502502	17.9N 128.0E	SAT	(IR DATA)						PCN 5	DMSP									
21	2504322	17.6N 128.4E	SAT	(IR DATA)						PCN 5	DMSP									
22	2504592	17.8N 128.9E	SAT	(IR DATA)						PCN 5	DMSP									
23	2511412	17.6N 127.1E	SAT	(IR DATA)						PCN 5	DMSP									
24	2511412	17.9N 127.0E	SAT	(IR DATA)						PCN 5	DMSP									
25	2511502	17.5N 127.0E	SAT	(IR DATA)						NOAA-4			(CONF 01)							
26	2511532	18.1N 128.8E	P	20 15 700 220 30 130			80	-	-	-	999	308	17 10	-	- -	-				2
27	2512002	18.0N 127.6E	SAT	(IR DATA)						PCN 5	DMSP									
28	2512082	17.6N 127.1E	SAT	(IR DATA)						PCN 5	DMSP									
29	2515462	18.3N 128.4E	P	15 15 700 230 25 110			100	-	-	-	998	307	15 -	-	- -	-				2
30	2522442	18.3N 128.5E	SAT	(IR DATA)						PCN 3	DMSP									
31	2522442	19.0N 128.4E	SAT	(IR DATA)						PCN 3	DMSP									
32	2600082	18.4N 128.4E	SAT	(T1.0/1.5 /W0.5/23HRS)						NOAA-4			(CONF 01)							
33	2600412	18.4N 128.6E	SAT	(T2.0/2.0 /S /26HRS)						PCN 5	DMSP									
34	2600412	18.5N 129.0E	SAT	(T 0/1.0 /W1.0/25HRS)						PCN 5	DMSP									
35	2604122	18.4N 129.2E	SAT	(T1.0/2.0 /W1.0/29HRS)						PCN 5	DMSP									
36	2604122	19.0N 128.9E	SAT	(IR DATA)						PCN 5	DMSP									

TROPICAL STORM GRACE
FIX POSITIONS FOR CYCLONE NO. 20
0000Z 25 OCT TO 0600Z 02 NOV

FIX NO.	TIME	POSIT	FIX CAT	ACCRY NAV-MET	FIX LVL	FLT LVL WIND DIR	FLT LVL WIND VEL	FLT LVL WIND BRG	FLT LVL WIND RNG	MAX OBS SFC WIND VEL	MAX OBS SFC WIND BRG	MAX OBS SFC WIND RNG	OBS MIN SLP	MIN 700MB HGT	FLT LVL TI/TO	EYE FORM	ORIEN-TATION	EYE DIA	POSIT OF RADAR	MSN NMBR
37	2611292	18.3N 129.9E	SAT	(IR DATA					)	PCN 5	DMSP									
38	2611492	18.3N 129.7E	SAT	(IR DATA					)	PCN 5	DMSP									
39	2611412	18.6N 128.6E	SAT	(IR DATA					)	PCN 5	DMSP									
40	2611412	18.7N 129.9E	SAT	(IR DATA					)	PCN 5	DMSP									
41	2612302	19.4N 128.8E	P	3 15	700	90	20	360	50	-	-	-	1001	314	15 13	-	- -	-		5
42	2700234	19.1N 130.0E	SAT	(T1.0/1.0 /S		/20HRS)			PCN 3	DMSP										
43	2701542	19.1N 130.0E	SAT	(IR DATA					)	PCN 5	DMSP									
44	2711162	18.3N 131.4E	SAT	(IR DATA					)	PCN 5	DMSP									
45	2713042	18.3N 131.5E	SAT	(IR DATA					)	PCN 5	DMSP									
46	2722202	18.4N 132.2E	SAT	(IR DATA					)	PCN 5	DMSP									
47	2800012	18.0N 132.0E	SAT	(T2.5/2.5 /D1.5/12HRS)						NOAA-4				(CONF 02)						
48	2800052	18.1N 132.2E	SAT	(T2.0/2.0 /D1.0/24HRS)						PCN 5	DMSP									
49	2800052	18.2N 132.0E	SAT	(T1.5/1.5 /	/	HRS)				PCN 5	DMSP									
50	2800052	18.3N 132.0E	SAT	(T2.0/2.0 /	/	HRS)				PCN 3	DMSP									
51	2803352	18.1N 132.0E	SAT	(IR DATA					)	PCN 5	DMSP									
52	2803362	18.9N 131.4E	SAT	(IR DATA					)	PCN 3	DMSP									
53	2804312	18.2N 131.2E	P	5 5	700	220	35	140	55	35	140	50	-	309	13 10	-	- -	-		6
54	2811042	18.2N 132.3E	SAT	(IR DATA					)	PCN 5	DMSP									
55	2811052	18.1N 131.3E	SAT	(IR DATA					)	PCN 5	DMSP									
56	2811052	17.4N 132.5E	SAT	(IR DATA					)	PCN 5	DMSP									
57	2814452	18.1N 131.2E	SAT	(IR DATA					)	PCN 5	DMSP									
58	2817572	18.3N 129.8E	P	2 20	700	230	30	120	80	-	-	-	-	310	10 10	-	- -	-		7
59	2821362	17.1N 128.6E	P	5 10	700	90	30	10	30	25	20	35	-	309	12 11	-	- -	-		7
60	2822082	17.3N 129.1E	SAT	(IR DATA					)	PCN 5	DMSP									
61	2822082	16.4N 129.3E	SAT	(T 0/1.0 /	/	HRS)				PCN 5	DMSP									
62	2823462	17.3N 128.4E	SAT	(T1.0/2.0 /W1.0/24HRS)						PCN 5	DMSP									
63	2823462	17.3N 129.7E	SAT	(T2.0/2.0 /D0.5/24HRS)						PCN 3	DMSP									
64	2823462	16.3N 128.9E	SAT	(T2.0/2.0 /S		/24HRS)				PCN 5	DMSP									
65	2901172	17.3N 128.3E	SAT	(IR DATA					)	PCN 5	DMSP									
66	2901172	16.8N 129.0E	SAT	(IR DATA					)	PCN 5	DMSP									
67	2904172	17.3N 128.6E	P	10 20	700	250	25	200	70	25	200	70	998	307	11 9	-	- -	-		9
68	2910532	17.3N 129.3E	SAT	(IR DATA					)	PCN 5	DMSP									
69	2910532	17.3N 128.7E	SAT	(IR DATA					)	PCN 5	DMSP									
70	2912282	17.4N 129.4E	SAT	(IR DATA					)	PCN 5	DMSP									
71	2912282	17.4N 128.8E	SAT	(IR DATA					)	PCN 5	DMSP									
72	2915182	18.1N 128.6E	P	1 8	700	220	20	100	25	-	-	-	996	305	11 9	-	- -	-		9
73	2920302	18.2N 128.5E	P	2 5	700	20	25	300	25	-	-	-	991	301	16 12	-	- -	-		9
74	2921562	18.4N 129.0E	SAT	(IR DATA					)	PCN 5	DMSP									
75	2921562	17.4N 130.6E	SAT	(T1.0/1.0 /D1.0/24HRS)						PCN 5	DMSP									
76	2922282	18.4N 129.2E	SAT	(T2.5/2.5 /D1.5/24HRS)						PCN 5	DMSP									
77	2922282	18.4N 130.2E	SAT	(T1.5/2.0 /W0.5/24HRS)						PCN 5	DMSP									
78	2922282	18.4N 129.3E	SAT	(T3.0/3.0 /D1.0/24HRS)						PCN 5	DMSP									
79	2924552	19.4N 130.5E	SAT	(T3.5/3.5 /D1.0/23HRS)						NOAA-4				(CONF 01)						
80	3002412	18.1N 128.7E	P	2 5	700	230	35	30	20	35	310	60	-	310	15 11	-	- -	-		10
81	3002582	18.4N 129.5E	SAT	(IR DATA					)	PCN 5	DMSP									
82	3002582	18.7N 130.8E	SAT	(IR DATA					)	PCN 5	DMSP									
83	3003022	19.1N 129.4E	P	3 5	700	-	-	-	-	40	190	70	-	309	10 9	-	- -	-		10
84	3010412	20.2N 130.6E	SAT	(IR DATA					)	PCN 6	DMSP									
85	3010412	18.9N 129.5E	SAT	(IR DATA					)	PCN 5	DMSP									
86	3010412	20.4N 130.3E	SAT	(IR DATA					)	PCN 5	DMSP									
87	3012092	20.5N 130.1E	SAT	(IR DATA					)	PCN 5	DMSP									
88	3012092	20.6N 129.6E	SAT	(IR DATA					)	PCN 5	DMSP									
89	3013272	20.3N 129.6E	P	10 10	700	220	85	140	5	-	-	-	987	298	15 10	EYE	N-S	40A15		11
90	3021402	21.5N 129.9E	P	4 3	700	260	60	190	40	80	240	15	984	295	17 14	CIRC		35		12
91	3021442	21.4N 129.9E	SAT	(IR DATA					)	PCN 3	DMSP									
92	3021442	21.4N 129.9E	SAT	(IR DATA					)	PCN 3	DMSP									
93	3023092	21.1N 130.0E	SAT	(T2.0/2.0 /D1.0/25HRS)						PCN 5	DMSP									
94	3023102	21.4N 130.0E	SAT	(T3.5/3.5 /D1.0/24HRS)						PCN 3	DMSP									
95	3023102	21.6N 129.9E	SAT	(T3.0/3.0 /D1.5/24HRS)						PCN 3	DMSP									
96	3023102	21.6N 130.2E	SAT	(T4.0/4.0-/D1.0/24HRS)						PCN 3	DMSP									
97	3102302	21.5N 130.1E	P	2 5	700	210	50	120	50	60	70	25	990	300	16 14	-	- -	-		12
98	3102402	21.9N 130.5E	SAT	(IR DATA					)	PCN 3	DMSP									
99	3104592	23.2N 131.6E	P	10 2	700	60	35	300	22	-	-	-	994	303	16 10	-	- -	-		13
100	3110292	23.4N 131.9E	SAT	(IR DATA					)	PCN 5	DMSP									
101	3110292	23.4N 132.1E	SAT	(IR DATA					)	PCN 5	DMSP									
102	3111512	23.5N 131.7E	SAT	(IR DATA					)	PCN 5	DMSP									
103	3111512	23.6N 131.5E	SAT	(IR DATA					)	PCN 5	DMSP									
104	3114302	23.4N 131.8E	P	10 5	700	20	43	310	35	-	-	-	995	304	18 11	-	- -	-		13
105	3121322	24.2N 133.1E	SAT	(IR DATA					)	PCN 5	DMSP									
106	3121322	24.3N 133.3E	SAT	(IR DATA					)	PCN 5	DMSP									
107	3121322	23.4N 133.0E	SAT	(T3.0/3.0-/D1.0/26HRS)						PCN 5	DMSP									
108	3122512	24.3N 133.0E	SAT	(T3.0/3.5 /W0.5/24HRS)						PCN 5	DMSP									
109	3122512	24.4N 133.5E	SAT	(T2.5/3.0-/W0.5/24HRS)						PCN 5	DMSP									
110	3123492	24.2N 133.0E	SAT	(T2.5/3.0 /W1.0/23HRS)						NOAA-4				(CONF 01)						
111	0104562	26.5N 136.4E	P	20 20	700	210	65	120	60	-	-	-	999	308	11 9	-	- -	-		15
112	0110162	26.3N 135.1E	SAT	(IR DATA					)	PCN 5	DMSP									
113	0110162	25.5N 136.6E	SAT	(IR DATA					)	PCN 5	DMSP									
114	0110162	26.1N 134.9E	SAT	(IR DATA					)	PCN 5	DMSP									
115	0111322	25.9N 136.2E	SAT	(IR DATA					)	PCN 5	DMSP									
116	0111322	26.1N 136.4E	SAT	(IR DATA					)	PCN 6	DMSP									
117	0114582	26.1N 137.0E	P	5 5	700	200	70	120	20	-	-	-	991	301	13 9	CIRC		40		15
118	0121202	27.5N 139.8E	SAT	(IR DATA					)	PCN 6	DMSP									
119	0122332	27.5N 138.7E	SAT	(T1.0/2.0 /W2.0/24HRS)						PCN 6	DMSP									
120	0122332	27.7N 139.3E	SAT	(T1.5/2.5-/W1.0/25HRS)						PCN 5	DMSP									
121	0200422	27.5N 140.6E	SAT	(IR DATA					)	NOAA-4				(CONF 01)						
122	0205262	26.4N 141.6E	P	1 10	700	210	25	290	80	55	290	100	998	307	8 -	-	- -	-		16

TROPICAL STORM HELEN
FIX POSITIONS FOR CYCLONE NO. 21
0600Z 03 NOV TO 1200Z 04 NOV

FIX NO.	TIME	POSIT	FIX CAT	ACCRY NAV-MET	FIX LVL	MAX OBS FLT LVL WIND DIR	VEL	RAD	RNG	MAX OBS SFC WIND VEL	RAD	RNG	OBS MIN SLP	MIN 700MB HGT	FLT LVL TI/TO	EYE FORM	ORIEN-TATION	EYE DIA	POSIT OF RADAR	MSN NMBR
1	3018092	15.7N 123.0E	SAT	(IR DATA)						PCN 5	DMSP									
2	3104212	17.0N 125.0E	SAT	(T 0/1.0 / / HRS)						PCN 5	DMSP									
3	0100332	15.1N 125.2E	SAT	(T2.0/2.0 / / HRS)						PCN 3	DMSP									
4	0100332	15.3N 125.5E	SAT	(T2.0/2.0 /D2.0/20HRS)						PCN 3	DMSP									
5	0122352	14.3N 121.8E	LRDR	- DEVELOPING CYCLONIC BANDS, WELL DEFINED															15.2N 120.5E	
6	0123352	14.4N 121.8E	LRDR	- CENTER MOSTLY FILLED AND STATIONARY															15.2N 120.5E	
7	0200002	14.5N 121.6E	LRDR	-															14.4N 121.0E	
8	0200142	14.0N 120.7E	SAT	(T2.0/2.0+/S /24HRS)						PCN 5	DMSP									
9	0200472	14.7N 119.5E	SAT	(T1.0/1.0 /S /12HRS)						NOAA-4			(CONF 01)							
10	0211462	14.2N 118.3E	SAT	(IR DATA)						PCN 5	DMSP									
11	0212562	14.2N 118.0E	SAT	(IR DATA)						PCN 5	DMSP									
12	0222492	13.9N 116.3E	SAT	(T1.0/1.0 / / HRS)						PCN 5	DMSP									
13	0222502	13.9N 116.3E	SAT	(T2.0/2.0 /S /23HRS)						PCN 5	DMSP									
14	0223562	13.5N 116.8E	SAT	(T2.0/2.0 / / HRS)						PCN 5	DMSP									
15	0301412	13.7N 115.5E	SAT	(T2.0/2.0 /D1.0/25HRS)						NOAA-4			(CONF 01)							
16	0304072	13.4N 114.5E	P	10 10 700 80 55 360						20	75	360	20 998	307	13 -	-	- -	-		1
17	0311362	14.2N 113.7E	SAT	(IR DATA)						PCN 5	DMSP									
18	0312242	14.0N 113.5E	SAT	(IR DATA)						NOAA-4			(CONF 01)							
19	0312372	13.9N 112.8E	SAT	(IR DATA)						PCN 5	DMSP									
20	0312472	14.1N 113.7E	SAT	(IR DATA)						PCN 5	DMSP									
21	0322382	12.8N 111.2E	SAT	(T3.5/3.5-/D1.5/24HRS)						PCN 5	DMSP									
22	0322382	12.7N 111.6E	SAT	(IR DATA)						PCN 5	DMSP									
23	0400432	13.3N 111.2E	SAT	(T3.0/3.0-/D1.0/23HRS)						NOAA-4			(CONF 01)							
24	0401192	13.2N 110.3E	SAT	(T3.0/3.0-/D1.0/25HRS)						PCN 3	DMSP									
25	0401192	12.5N 110.3E	SAT	(T2.5/2.5-/D1.5/26HRS)						PCN 5	DMSP									
26	0411222	13.1N 108.0E	SAT	(IR DATA)						PCN 5	DMSP									
27	0414002	12.4N 107.9E	SAT	(IR DATA)						PCN 5	DMSP									
28	0414002	13.0N 108.2E	SAT	(IR DATA)						PCN 5	DMSP									

TYPHOON TDA
FIX POSITIONS FOR CYCLONE NO. 22
0600Z 06 NOV TO 1200Z 11 NOV

FIX NO.	TIME	POSIT	FIX CAT	ACCRY NAV-MET	FIX LVL	MAX OBS FLT LVL WIND DIR	VEL	RAD	RNG	MAX OBS SFC WIND VEL	RAD	RNG	OBS MIN SLP	MIN 700MB HGT	FLT LVL TI/TO	EYE FORM	ORIEN-TATION	EYE DIA	POSIT OF RADAR	MSN NMBR
1	0321562	9.2N 157.4E	SAT	(IR DATA)						PCN 6	DMSP									
2	0400402	10.5N 155.0E	SAT	(IR DATA)						PCN 6	DMSP									
3	0420432	10.4N 155.2E	SAT	(T 0/1.0 / / HRS)						PCN 5	DMSP									
4	0421382	10.9N 154.7E	SAT	(IR DATA)						PCN 6	DMSP									
5	0504282	11.3N 152.4E	SAT	(IR DATA)						PCN 6	DMSP									
6	0504282	13.9N 152.4E	SAT	(IR DATA)						PCN 5	DMSP									
7	0510192	11.4N 152.3E	SAT	(IR DATA)						PCN 6	DMSP									
8	0510222	10.9N 148.8E	SAT	(IR DATA)						NOAA-4			(CONF 01)							
9	0520312	11.3N 151.7E	SAT	(IR DATA)						PCN 5	DMSP									
10	0522432	12.0N 149.6E	SAT	(T1.0/1.0 /D0.5/24HRS)						NOAA-4			(CONF 01)							
11	0523002	9.4N 152.0E	SAT	(T1.0/1.0 /D1.0/26HRS)						PCN 5	DMSP									
12	0523012	11.5N 151.6E	SAT	(T 0/1.0 / / HRS)						PCN 5	DMSP									
13	0604162	12.4N 150.2E	SAT	(IR DATA)						PCN 5	DMSP									
14	0604162	13.0N 150.6E	SAT	(IR DATA)						PCN 6	DMSP									
15	0604162	11.0N 149.5E	SAT	(IR DATA)						PCN 6	DMSP									
16	0604242	13.0N 148.8E	SAT	(IR DATA)						NOAA-4			(CONF 02)							
17	0611422	12.6N 150.0E	SAT	(IR DATA)						PCN 5	DMSP									
18	0611422	13.2N 150.6E	SAT	(IR DATA)						PCN 5	DMSP									
19	0615002	13.6N 143.0E	P	20 5 1500 260 18 170						35	-	-	- 1005	-	24 24	-	- -	-		2
20	0620192	13.4N 149.8E	SAT	(IR DATA)						PCN 5	DMSP									
21	0620302	12.4N 149.4E	P	15 5 1500 120 28 50						25	20	50	25 1004	-	24 24	-	- -	-		2
22	0622422	13.5N 149.3E	SAT	(T 0/2.0 / / HRS)						PCN 5	DMSP									
23	0622422	12.4N 150.2E	SAT	(T2.0/2.0 /D2.0/24HRS)						PCN 5	DMSP									
24	0623382	11.0N 150.5E	SAT	(T2.0/2.0 /D1.0/25HRS)						NOAA-4			(CONF 01)							
25	0704482	13.3N 149.8E	P	10 2 1500 320 35 220						30	20	220	25 1004	-	24 23	-	- -	-		3
26	0704302	13.8N 149.3E	P	5 5 700 120 35 70						30	35	80	40 1001	310	13 12	-	- -	-		3
27	0704042	14.0N 150.0E	SAT	(IR DATA)						PCN 5	DMSP									
28	0704042	14.0N 150.2E	SAT	(IR DATA)						PCN 5	DMSP									
29	0710452	15.0N 150.0E	SAT	(IR DATA)						NOAA-4			(CONF 02)							
30	0711242	14.5N 150.1E	SAT	(IR DATA)						PCN 5	DMSP									
31	0711242	14.6N 150.4E	SAT	(IR DATA)						PCN 5	DMSP									
32	0712442	14.0N 149.3E	P	- 15 700 190 25 100						30	-	-	- 998	307	12 11	-	- -	-		4
33	0716002	14.8N 148.9E	P	- 20 700 120 40 50						108	-	-	- 995	304	13 11	-	- -	-		4
34	0720072	15.5N 148.6E	SAT	(IR DATA)						PCN 6	DMSP									
35	0720372	14.7N 148.7E	P	2 5 700 350 30 250						125	35	70	50 995	304	14 12	-	- -	-		5
36	0721492	15.5N 148.1E	SAT	(IR DATA)						PCN 5	DMSP									
37	0722242	15.7N 149.1E	SAT	(T3.0/3.0 /D1.0/24HRS)						PCN 5	DMSP									
38	0722382	15.6N 149.7E	SAT	(T2.0/2.0 /S /23HRS)						NOAA-4			(CONF 01)							
39	0803442	15.3N 148.6E	P	2 15 700 180 50 100						200	50	100	200 991	301	12 11	-	- -	-		5
40	0804512	16.2N 148.2E	SAT	(IR DATA)						PCN 6	DMSP									
41	0804142	17.0N 148.2E	P	10 5 700 260 30 180						40	-	-	- 991	301	15 11	CTHC		30		6
42	0811052	16.8N 148.1E	SAT	(IR DATA)						PCN 5	DMSP									
43	0811052	17.2N 149.0E	SAT	(IR DATA)						PCN 5	DMSP									
44	0811152	17.2N 148.9E	SAT	(IR DATA)						NOAA-4			(CONF 02)							
45	0814362	17.1N 147.2E	P	10 5 700 60 50 320						30	-	-	- 990	300	15 12	CTHC		10		6
46	0821152	18.1N 146.5E	P	- 5 700 310 35 210						50	40	360	12 982	293	17 12	CTHC		25		7
47	0821372	18.8N 145.9E	SAT	(IR DATA)						PCN 3	DMSP									
48	0821372	18.8N 147.1E	SAT	(IR DATA)						PCN 5	DMSP									
49	0822052	18.4N 145.8E	SAT	(T3.5/3.5 /D0.5/24HRS)						PCN 6	DMSP									
50	0823312	18.0N 146.1E	SAT	(T4.0/4.0 /D2.0/25HRS)						NOAA-4			(CONF 01)							

TYPHOON TUA
FIX POSITIONS FOR CYCLONE NO. 22
0600Z 06 NOV TO 1200Z 11 NOV

FIX NO.	TIME	POSIT	FIX CAT	ACCRY NAV-MET	FIX LVL	MAX OBS FLT LVL WIND DIR	VEL	BRG	RNG	MAX OBS SFC WIND VEL	BRG	RNG	OBS MIN SLP	MIN 700MB HGT	FLT LVL TI/TO	EYE FORM	ORIENTATION	EYE DIA	POSIT OF RADAR	MSN NMBR
51	090/30Z	18.6N 146.0E	P	- 5	700	10	65	330		70	NOAA-6			(CONF 01)						
52	091/01Z	19.8N 145.5E	SAT	(IR DATA					)		NOAA-6			(CONF 01)						
53	091/21Z	19.7N 145.4E	SAT	(IR DATA					)		PCN 5	DMSP								
54	091/22Z	19.9N 145.6E	SAT	(IR DATA					)		PCN 5	DMSP								
55	091/47Z	19.6N 145.1E	SAT	(IR DATA					)		PCN 6	DMSP								
56	091/47Z	19.6N 145.5E	SAT	(IR DATA					)		PCN 6	DMSP								
57	091/30Z	20.0N 145.4E	P	10 5	700	290	80	210		60	-	-	-	970	293	16 12	CIRC		60		8
58	092/25Z	21.4N 145.5E	SAT	(T5.0/5.0 /U1.5/24HRS)							PCN 4	DMSP								
59	092/25Z	21.5N 144.9E	SAT	(T4.0/4.0 / / HRS)							PCN 5	DMSP								
60	092/47Z	21.6N 145.4E	SAT	(IR DATA					)		PCN 3	DMSP								
61	092/30Z	21.5N 144.0E	SAT	(T5.0/5.0 /U1.0/23HRS)							NOAA-6			(CONF 01)						
62	093/29Z	22.2N 145.7E	SAT	(IR DATA					)		PCN 1	DMSP								
63	093/29Z	22.2N 145.8E	SAT	(T4.5/4.5 / / HRS)							PCN 3	DMSP								
64	100/05Z	22.9N 144.0E	P	2 3	700	290	70	210		70	100	210	50	962	276	17 12	CIRC		30		9
65	101/01Z	25.4N 147.9E	SAT	(IR DATA					)		PCN 1	DMSP								
66	101/13Z	26.7N 147.2E	SAT	(IR DATA					)		NOAA-6			(CONF 02)						
67	101/10Z	26.3N 148.3E	SAT	(IR DATA					)		PCN 1	DMSP								
68	101/10Z	26.3N 147.8E	SAT	(IR DATA					)		PCN 1	DMSP								
69	101/37Z	27.6N 147.6E	P	5 2	700	240	110	180		20	-	-	-	959	273	20 16	CIRC		25		10
70	102/13Z	31.7N 150.5E	SAT	(IR DATA					)		PCN 3	DMSP								
71	102/13Z	31.7N 150.9E	SAT	(T3.0/3.0 / / HRS)							PCN 5	DMSP								
72	102/29Z	31.7N 150.2E	SAT	(T3.5/4.5-/W1.5/24HRS)							PCN 4	DMSP								
73	102/21Z	33.0N 151.9E	SAT	(T4.0/5.0 /W1.0/23HRS)							NOAA-6			(CONF 01)						
74	110/57Z	37.5N 153.2E	SAT	(IR DATA					)		PCN 5	DMSP								
75	110/57Z	37.5N 153.7E	SAT	(IR DATA					)		PCN 5	DMSP								
76	111/19Z	42.0N 157.0E	SAT	(IR DATA					)		NOAA-6			(CONF 02)						
77	111/19Z	37.2N 153.6E	SAT	(IR DATA					)		PCN 5	DMSP								

TYPHOON TUNE
FIX POSITIONS FOR CYCLONE NO. 23
0600Z 16 NOV TO 0000Z 24 NOV

FIX NO.	TIME	POSIT	FIX CAT	ACCRY NAV-MET	FIX LVL	MAX OBS FLT LVL WIND DIR	VEL	BRG	RNG	MAX OBS SFC WIND VEL	BRG	RNG	OBS MIN SLP	MIN 700MB HGT	FLT LVL TI/TO	EYE FORM	ORIENTATION	EYE DIA	POSIT OF RADAR	MSN NMBR
1	132/15Z	7.4N 149.2E	SAT	(T 0/1.0 / / HRS)						PCN 5	DMSP									
2	140/21Z	8.5N 146.5E	SAT	(IR DATA					)		PCN 5	DMSP								
3	142/05Z	8.5N 147.1E	SAT	(IR DATA					)		PCN 6	DMSP								
4	142/57Z	8.3N 147.2E	SAT	(T2.0/2.0 /D2.0/24HRS)							PCN 6	DMSP								
5	142/14Z	8.4N 145.8E	SAT	(T1.0/1.0 /U0.5/24HRS)							NOAA-6			(CONF 03)						
6	142/38Z	9.3N 146.2E	SAT	(IR DATA					)		PCN 5	DMSP								
7	150/09Z	7.6N 145.9E	SAT	(IR DATA					)		PCN 5	DMSP								
8	151/38Z	8.1N 145.8E	SAT	(IR DATA					)		PCN 5	DMSP								
9	151/52Z	9.0N 144.5E	SAT	(IR DATA					)		NOAA-6			(CONF 03)						
10	152/55Z	8.4N 143.3E	SAT	(IR DATA					)		PCN 5	DMSP								
11	152/55Z	8.6N 143.4E	SAT	(T 0/1.0 / / HRS)							PCN 5	DMSP								
12	152/20Z	7.6N 142.9E	SAT	(T2.0/2.0 /S /25HRS)							PCN 5	DMSP								
13	152/20Z	7.3N 142.8E	SAT	(IR DATA					)		PCN 5	DMSP								
14	160/15Z	7.2N 144.0E	SAT	(T2.0/2.0 /D1.0/26HRS)							NOAA-6			(CONF 02)						
15	160/26Z	6.4N 143.4E	P	5 2	1500	350	27	240		25	30	210	35	996	-	23 23	-	- -	-		2
16	160/35Z	6.6N 142.8E	P	5 5	700	70	30	360		10	-	-	-	994	303	14 14	CIRC		5		3
17	161/05Z	6.4N 142.6E	SAT	(IR DATA					)		NOAA-6			(CONF 01)						
18	161/01Z	7.2N 141.5E	SAT	(IR DATA					)		PCN 5	DMSP								
19	161/01Z	6.4N 142.5E	SAT	(IR DATA					)		PCN 5	DMSP								
20	161/43Z	6.6N 142.8E	P	5 5	700	80	42	320		10	-	-	-	992	301	12 10	CIRC		5		3
21	162/05Z	6.6N 142.8E	P	10 5	700	150	40	50		6	35	50	10	986	297	16 12	CIRC		5		4
22	162/42Z	6.6N 142.6E	SAT	(IR DATA					)		PCN 5	DMSP								
23	162/42Z	6.6N 143.4E	SAT	(T2.0/2.0 /D2.0/24HRS)							PCN 6	DMSP								
24	162/42Z	6.6N 142.5E	SAT	(T3.5/3.5+/D1.5/24HRS)							PCN 5	DMSP								
25	162/02Z	6.9N 142.3E	SAT	(T3.0/3.0 / / HRS)							PCN 3	DMSP								
26	162/15Z	6.7N 142.8E	SAT	(T3.0/3.0 /D1.0/23HRS)							NOAA-6			(CONF 01)						
27	170/18Z	6.2N 142.4E	P	5 5	700	310	65	240		48	50	180	65	981	293	16 11	CIRC		6		4
28	170/33Z	6.4N 142.5E	P	5 2	700	240	64	130		22	55	320	25	977	288	16 13	FIXP	E-W	22X15		5
29	171/27Z	6.6N 142.7E	SAT	(IR DATA					)		PCN 5	DMSP								
30	171/27Z	7.0N 142.1E	SAT	(IR DATA					)		PCN 3	DMSP								
31	171/43Z	6.8N 142.4E	SAT	(IR DATA					)		PCN 3	DMSP								
32	171/43Z	6.6N 142.3E	SAT	(IR DATA					)		PCN 6	DMSP								
33	171/47Z	6.6N 141.5E	SAT	(IR DATA					)		NOAA-6			(CONF 02)						
34	171/43Z	7.1N 142.4E	P	5 5	700	10	50	290		25	-	-	-	973	286	19 12	FIXP	E-W	18X12		5
35	172/10Z	7.6N 142.3E	P	5 5	700	340	75	240		10	70	240	10	988	281	19 14	CIRC		10		6
36	172/30Z	7.6N 142.3E	SAT	(IR DATA					)		PCN 4	DMSP								
37	172/30Z	7.6N 141.9E	SAT	(T4.5/4.5+/D1.5/23HRS)							PCN 4	DMSP								
38	172/43Z	7.6N 142.4E	SAT	(T5.0/5.0 /D1.5/24HRS)							PCN 3	DMSP								
39	172/43Z	7.6N 142.4E	SAT	(IR DATA					)		PCN 3	DMSP								
40	180/09Z	7.6N 142.5E	SAT	(T4.0/4.0 /D1.0/25HRS)							NOAA-6			(CONF 01)						
41	180/30Z	8.2N 142.6E	P	5 5	700	50	65	10		10	60	240	5	969	282	20 14	CIRC		10		6
42	180/10Z	9.2N 142.3E	P	5 2	700	80	75	350		15	-	-	-	985	278	19 17	CIRC		18		7
43	181/15Z	9.6N 142.2E	SAT	(IR DATA					)		PCN 3	DMSP								
44	181/15Z	9.6N 141.9E	SAT	(IR DATA					)		PCN 6	DMSP								
45	181/48Z	10.1N 141.2E	SAT	(IR DATA					)		NOAA-6			(CONF 01)						
46	181/25Z	9.8N 142.3E	SAT	(IR DATA					)		PCN 3	DMSP								
47	181/25Z	9.8N 142.2E	SAT	(IR DATA					)		PCN 3	DMSP								
48	181/49Z	9.6N 142.6E	P	5 2	700	80	80	350		30	-	-	-	955	269	20 13	CIRC	-	8		7
49	181/50Z	10.2N 142.3E	P	5 2	700	320	80	270		10	-	-	-	967	283	21 12	CIRC		7		8
50	181/50Z	10.5N 142.1E	P	3 2	700	120	95	40		15	-	-	-	992	258	21 13	-	- -	-		9

TYPHOON IUNE

FIX POSITIONS FOR CYCLONE NO. 23

0600Z 16 NOV TO 0000Z 24 NOV

FIX NO.	TIME	POSITION	FIX CAT	ACCRY NAV-MET	FIX LVL	MAX OBS FLT LVL WIND DIR	VEL	BRG	RNG	MAX OBS SFC WIND VEL	BRG	RNG	OBS MIN SLP	MIN 700MB HGT	FLT LVL TI/TO	EYE FORM	ORIENTATION	EYE DIA	POSIT OF RADAR	MSN NMBR
51	1820502	10.4N 141.9E	P	10 2	700	110	95	20	15	100	50	7	919	239	21 13	CTHC		12		9
52	1821182	11.0N 142.0E	SAT	(IR DATA					)	PCN 1 DMSP										
53	1821182	11.0N 142.0E	SAT	(T6.0/6.0 /D1.5/24HRS)						PCN 1 DMSP										
54	1822242	11.0N 141.7E	SAT	(T6.0/6.0 /D1.0/24HRS)						PCN 1 DMSP										
55	1822252	11.0N 141.6E	SAT	(IR DATA					)	PCN 1 DMSP										
56	1824042	10.4N 141.5E	SAT	(T5.0/5.0 /D1.0/23HRS)						NOAA-4			(CONF 01)							
57	1904022	11.7N 141.7E	P	- 2	700	200	115	120	4	150	20	2	888	212	25 13	CONC	-	26		10
58	1907052	12.2N 141.6E	LRDR	- CIRCULAR EYE, DIAMETER 10 NM															13.5N 144.9E	
59	1907552	12.5N 141.5E	LRDR	- CIRCULAR EYE, DIAMETER 10 NM															13.5N 144.9E	
60	1908432	12.4N 141.3E	P	5 1	700	270	110	160	10	-	-	-	875	200	26 14	CTHC		5		11
61	1908552	12.4N 141.3E	LRDR	- CIRCULAR EYE, DIAMETER 10 NM															13.5N 144.9E	
62	1909552	13.1N 141.2E	LRDR	- CIRCULAR EYE, CHECKED WITH OVERLAY															13.5N 144.9E	
63	1910032	13.1N 141.2E	SAT	(IR DATA					)	PCN 1 DMSP										
64	1910032	12.8N 141.0E	SAT	(IR DATA					)	PCN 2 DMSP										
65	1911002	13.1N 141.1E	LRDR	- SPIRAL OVERLAY, NO EYE															13.5N 144.9E	
66	1911062	13.1N 141.1E	SAT	(IR DATA					)	PCN 1 DMSP										
67	1911062	13.1N 141.1E	SAT	(IR DATA					)	PCN 1 DMSP										
68	1911432	13.2N 141.0E	SAT	(IR DATA					)	NOAA-4			(CONF 01)							
69	1914402	13.5N 140.5E	P	5 1	700	-	-	-	-	-	-	-	875	200	28 19	CTHC		5		12
70	1921062	14.2N 139.7E	SAT	(IR DATA					)	PCN 1 DMSP										
71	1921062	14.1N 139.6E	SAT	(IR DATA					)	PCN 3 DMSP										
72	1921532	14.3N 140.0E	P	15 2	700	-	-	-	-	120	90	10	895	218	22 18	CONC	-	4		13
73	1923482	14.2N 139.6E	SAT	(T7.0/7.0 /D1.0/25HRS)						PCN 1 DMSP										
74	1923482	14.3N 139.7E	SAT	(T7.0/7.0 / / HRS)						PCN 1 DMSP										
75	1923482	14.4N 139.7E	SAT	(T6.5/6.5-/D0.5/26HRS)						PCN 1 DMSP										
76	1923482	14.3N 139.9E	SAT	(T7.0/7.0 / / HRS)						PCN 3 DMSP										
77	2000012	14.1N 139.6E	SAT	(T7.0/7.0-/D2.0/25HRS)						NOAA-4			(CONF 01)							
78	2002442	14.4N 138.9E	P	3 1	700	80	90	10	10	90	20	10	896	218	20 16	CONC	-	8		14
79	2004502	15.2N 138.6E	SAT	(IR DATA					)	PCN 1 DMSP										
80	2005502	15.0N 137.9E	SAT	(IR DATA					)	PCN 2 DMSP										
81	2010452	15.3N 137.9E	SAT	(IR DATA					)	NOAA-4			(CONF 01)							
82	2012292	15.4N 138.2E	SAT	(IR DATA					)	PCN 1 DMSP										
83	2012292	15.2N 138.0E	SAT	(IR DATA					)	PCN 1 DMSP										
84	2012292	15.4N 138.1E	SAT	(IR DATA					)	PCN 1 DMSP										
85	2014302	15.6N 137.9E	P	5 2	700	310	95	210	40	-	-	-	899	220	21 19	CTHC		12		15
86	2020542	16.3N 136.7E	SAT	(IR DATA					)	PCN 4 DMSP										
87	2020542	16.2N 137.2E	SAT	(IR DATA					)	PCN 1 DMSP										
88	2020542	16.1N 137.3E	SAT	(IR DATA					)	PCN 2 DMSP										
89	2022362	16.5N 136.8E	SAT	(IR DATA					)	PCN 3 DMSP										
90	2023012	16.7N 137.1E	SAT	(T4.0/6.5 /W3.0/23HRS)						NOAA-4			(CONF 01)							
91	2023302	16.8N 136.9E	SAT	(T6.5/6.5-/W0.5/24HRS)						PCN 1 DMSP										
92	2023302	16.5N 136.7E	SAT	(T7.0/7.0-/D0.5/24HRS)						PCN 1 DMSP										
93	2103162	17.4N 136.4E	P	5 1	700	290	100	190	5	130	20	14	899	-	22 13	CTHC		29		16
94	2104362	18.1N 135.4E	SAT	(IR DATA					)	PCN 1 DMSP										
95	2104392	18.0N 135.6E	SAT	(IR DATA					)	PCN 1 DMSP										
96	2111462	18.7N 136.1E	SAT	(IR DATA					)	NOAA-4			(CONF 01)							
97	2112112	18.4N 135.4E	SAT	(IR DATA					)	PCN 1 DMSP										
98	2112112	18.4N 135.3E	SAT	(IR DATA					)	PCN 1 DMSP										
99	2112112	18.4N 135.4E	SAT	(IR DATA					)	PCN 1 DMSP										
100	2114422	18.8N 135.2E	P	3 2	700	310	100	230	15	-	-	-	920	239	17 13	EYE	N-S	40X25		17
101	2122242	20.2N 135.2E	SAT	(IR DATA					)	PCN 1 DMSP										
102	2122242	20.2N 135.3E	SAT	(IR DATA					)	PCN 1 DMSP										
103	2123112	20.4N 135.1E	SAT	(T6.5/6.5-/S /24HRS)						PCN 1 DMSP										
104	2123112	20.3N 135.2E	SAT	(T7.0/7.0-/ / HRS)						PCN 1 DMSP										
105	2123112	20.1N 135.1E	SAT	(T6.5/6.5 / / HRS)						PCN 1 DMSP										
106	2123552	19.9N 135.0E	SAT	(T6.0/6.0 /D2.0/25HRS)						NOAA-4			(CONF 01)							
107	2206502	21.1N 135.0E	P	5 3	700	200	105	120	50	90	120	40	925	243	19 16	CTHC		20		18
108	2210422	23.0N 135.0E	SAT	(IR DATA					)	NOAA-4			(CONF 01)							
109	2211082	22.9N 135.6E	SAT	(IR DATA					)	PCN 1 DMSP										
110	2211082	22.6N 135.7E	SAT	(IR DATA					)	PCN 1 DMSP										
111	2211532	22.7N 135.2E	SAT	(IR DATA					)	PCN 1 DMSP										
112	2211532	22.7N 135.3E	SAT	(IR DATA					)	PCN 1 DMSP										
113	2214302	23.1N 135.3E	P	5 2	700	340	115	250	90	-	-	-	937	254	17 13	EYE	SW-NE	30X20		19
114	2222122	25.0N 137.0E	SAT	(IR DATA					)	PCN 3 DMSP										
115	2222122	24.9N 137.4E	SAT	(T5.0/6.0-/W2.0/23HRS)						PCN 1 DMSP										
116	2222532	25.1N 137.2E	SAT	(T5.0/6.0-/W1.5/24HRS)						PCN 3 DMSP										
117	2223542	24.6N 138.0E	SAT	(T5.0/6.0 /W1.0/23HRS)						NOAA-4			(CONF 01)							
118	2223582	25.0N 137.3E	SAT	(T6.0/6.0-/ / HRS)						PCN 3 DMSP										
119	2304402	26.2N 138.4E	P	5 5	700	250	100	160	85	90	160	100	943	259	16 14	CTHC		10		20
120	2310562	28.5N 142.9E	SAT	(IR DATA					)	PCN 5 DMSP										
121	2310562	29.6N 142.1E	SAT	(IR DATA					)	PCN 5 DMSP										
122	2311342	29.3N 142.6E	SAT	(IR DATA					)	PCN 5 DMSP										
123	2311342	29.9N 142.7E	SAT	(IR DATA					)	PCN 3 DMSP										
124	2311592	29.5N 142.2E	SAT	(IR DATA					)	NOAA-4			(CONF 02)							
125	2320172	35.0N 150.8E	SAT	(IR DATA					)	PCN 5 DMSP										
126	2320182	34.9N 150.2E	SAT	(IR DATA					)	PCN 5 DMSP										
127	2322342	36.8N 152.1E	SAT	(T3.5/4.5 /W1.5/24HRS)						PCN 5 DMSP										
128	2322352	35.6N 151.7E	SAT	(T3.0/4.0-/W2.0/24HRS)						PCN 3 DMSP										
129	2323352	36.1N 151.9E	SAT	(T4.0/5.0-/W2.0/24HRS)						PCN 5 DMSP										
130	2324442	38.4N 155.0E	SAT	(T3.5/4.5 /W1.5/25HRS)						NOAA-4			(CONF 01)							

TROPICAL DEPRESSION 24
FIX POSITIONS FOR CYCLONE NO. 24
00002 27 DEC TO 0000Z 28 DEC

FIX NO.	TIME	POSIT	FIX CAT	ACCRY NAVAID	FIX METHOD	FLT LVL	MAX OBS WIND DIR	MAX OBS WIND VEL	MAX OBS WIND BRG	MAX OBS WIND RNG	SFC WIND VEL	SFC WIND BRG	SFC WIND RNG	OBS MIN SLP	MIN 700MB HGT	FLT LVL TT/TD	EYE FORM	ORIENTATION	EYE DIA	POSIT OF RADAR	MSN NMHR
1	2321Z	6.1N 136.6E	SAT	(T 0/1.0 / / HRS)							PCN 5	OMSP									
2	2400Z	9.8N 133.1E	SAT	(IR DATA)							PCN 5	OMSP									
3	2422Z	7.9N 130.9E	SAT	(T1.0/1.0 /D1.0/25HRS)							PCN 5	OMSP									
4	2511Z	7.7N 129.1E	SAT	(IR DATA)							PCN 5	OMSP									
5	2522Z	9.2N 127.7E	SAT	(T2.0/2.0-/D1.0/24HRS)							PCN 5	OMSP									
6	2600Z	10.5N 127.2E	SAT	(T2.0/2.0 /D1.0/24HRS)							NOAA-4			(CONF 01)							
7	2611Z	11.5N 125.2E	SAT	(IR DATA)							PCN 5	OMSP									
8	2613Z	11.4N 124.4E	SAT	(IR DATA)							NOAA-4			(CONF 02)							
9	2613Z	12.5N 125.6E	SAT	(IR DATA)							PCN 6	OMSP									
10	2622Z	13.9N 124.6E	SAT	(T1.0/2.0 /W1.0/24HRS)							PCN 5	OMSP									
11	2622Z	14.4N 125.5E	SAT	(T2.5/2.5 / / HRS)							PCN 6	OMSP									
12	2700Z	14.9N 123.0E	SAT	(T2.0/2.0 /W0.5/24HRS)							PCN 6	OMSP									
13	2701Z	15.1N 124.5E	SAT	(T2.5/2.5 /D0.5/25HRS)							NOAA-4			(CONF 02)							
14	2710Z	14.6N 122.0E	SAT	(IR DATA)							PCN 5	OMSP									
15	2710Z	15.1N 121.7E	SAT	(IR DATA)							PCN 5	OMSP									
16	2710Z	15.0N 122.0E	SAT	(IR DATA)							NOAA-4			(CONF 02)							
17	2713Z	15.2N 122.2E	SAT	(IR DATA)							PCN 6	OMSP									
18	2721Z	13.9N 121.4E	SAT	(IR DATA)							PCN 5	OMSP									
19	2721Z	13.8N 121.7E	SAT	(IR DATA)							PCN 6	OMSP									
20	2723Z	14.0N 121.8E	SAT	(IR DATA)							PCN 5	OMSP									
21	2723Z	15.4N 121.7E	SAT	(T1.0/2.0 /W1.5/25HRS)							PCN 5	OMSP									
22	2800Z	15.0N 122.5E	SAT	(T2.0/2.5 /W0.5/23HRS)							NOAA-4			(CONF 01)							
23	2814Z	17.5N 123.5E	SAT	(IR DATA)							NOAA-4										
24	2901Z	15.0N 126.5E	SAT	(IR DATA)							NOAA-4										

TROPICAL DEPRESSION 25
FIX POSITIONS FOR CYCLONE NO. 25
00002 27 DEC TO 0000Z 29 DEC

FIX NO.	TIME	POSIT	FIX CAT	ACCRY NAVAID	FIX METHOD	FLT LVL	MAX OBS WIND DIR	MAX OBS WIND VEL	MAX OBS WIND BRG	MAX OBS WIND RNG	SFC WIND VEL	SFC WIND BRG	SFC WIND RNG	OBS MIN SLP	MIN 700MB HGT	FLT LVL TT/TD	EYE FORM	ORIENTATION	EYE DIA	POSIT OF RADAR	MSN NMHR
1	2501Z	7.2N 113.2E	SAT	(T1.5/1.5 /D1.0/24HRS)							NOAA-4			(CONF 01)							
2	2511Z	11.0N 111.7E	SAT	(IR DATA)							PCN 5	OMSP									
3	2512Z	11.3N 114.0E	SAT	(IR DATA)							NOAA-4			(CONF 02)							
4	2600Z	11.3N 113.3E	SAT	(T1.0/1.0 / / HRS)							PCN 5	OMSP									
5	2602Z	10.5N 113.0E	SAT	(T1.5/1.5 /S /25HRS)							NOAA-4			(CONF 02)							
6	2613Z	11.2N 113.5E	SAT	(IR DATA)							NOAA-4			(CONF 02)							
7	2623Z	11.2N 114.3E	SAT	(T3.0/3.0-/D2.0/24HRS)							PCN 4	OMSP									
8	2700Z	10.0N 112.6E	SAT	(T1.5/1.5 / / HRS)							PCN 3	OMSP									
9	2701Z	10.3N 113.4E	SAT	(T3.0/3.0 /D1.5/23HRS)							NOAA-4			(CONF 01)							
10	2712Z	11.2N 114.0E	SAT	(IR DATA)							NOAA-4			(CONF 02)							
11	2712Z	10.7N 113.1E	SAT	(IR DATA)							PCN 5	OMSP									
12	2713Z	10.5N 112.5E	SAT	(IR DATA)							PCN 3	OMSP									
13	2723Z	9.8N 115.8E	SAT	(T2.0/2.0 / / HRS)							PCN 5	OMSP									
14	2723Z	9.6N 116.0E	SAT	(T2.0/3.0 /W1.0/24HRS)							PCN 5	OMSP									
15	2800Z	10.0N 116.0E	SAT	(T3.0/3.0 /S /23HRS)							NOAA-4			(CONF 02)							
16	2804Z	9.4N 115.1E	SAT	(T2.0/2.0 /D0.5/28HRS)							PCN 4	OMSP									
17	2810Z	9.1N 115.1E	SAT	(IR DATA)							PCN 5	OMSP									
18	2812Z	9.5N 115.8E	SAT	(IR DATA)							PCN 5	OMSP									
19	2812Z	9.0N 116.6E	SAT	(IR DATA)							PCN 6	OMSP									
20	2819Z	9.0N 116.0E	SAT	(IR DATA)							NOAA-4			(CONF 02)							
21	2823Z	9.0N 116.7E	SAT	(T2.0/2.0 /S /24HRS)							PCN 5	OMSP									
22	2823Z	8.9N 116.9E	SAT	(T1.0/2.0 /W1.0/24HRS)							PCN 6	OMSP									
23	2901Z	8.3N 117.0E	SAT	(T2.5/3.0 /W0.5/25HRS)							NOAA-4			(CONF 01)							
24	2901Z	8.6N 117.7E	SAT	(IR DATA)							PCN 6	OMSP									
25	2904Z	8.5N 117.4E	SAT	(T3.0/3.0 /D1.0/24HRS)							PCN 6	OMSP									
26	2912Z	10.0N 115.5E	SAT	(IR DATA)							NOAA-4			(CONF 02)							
27	2912Z	8.5N 117.5E	SAT	(IR DATA)							PCN 5	OMSP									
28	2912Z	10.1N 117.6E	SAT	(IR DATA)							PCN 5	OMSP									
29	2923Z	9.8N 118.8E	SAT	(T2.0/2.0 /D1.0/24HRS)							PCN 5	OMSP									
30	3000Z	8.0N 119.3E	SAT	(T1.5/2.5 /W1.0/23HRS)							NOAA-4			(CONF 02)							
31	3012Z	9.5N 117.5E	SAT	(IR DATA)							NON	OMSP									

FIX POSITIONS FOR TROPICAL CYCLONE NO. 4-75
0600Z 10 JAN TO 0600Z 11 JAN

FIX NO.	TIME	POSIT	FIX CAT	ACCMY NAV-MET	FIX LVL	FLT LVL WIND DIR	MAX OBS WIND VEL	MAX OBS WIND RRG	MAX OBS WIND RNG	SFC WIND VEL	OBS MIN SLP	MIN 700MB HGT	FLT LVL TI/TO	EYE FORM	ORIENTATION	EYE DIA	POSIT OF RADAR	MSN NMBR
1	060216Z	8.7N 99.6E	SAT		(T1.5/1.5 / / HRS)					PCN 5 DMSP								
2	061416Z	7.5N 92.0E	SAT		(IR DATA)					NOAA-4	(CONF 02)							
3	070158Z	8.1N 94.1E	SAT		(T1.5/1.5 / / HRS)					PCN 5 DMSP								
4	070158Z	8.1N 95.2E	SAT		(T1.5/1.5 /S /24HRS)					PCN 5 DMSP								
5	070252Z	9.1N 94.0E	SAT		(T2.0/2.0 /D1.0/24HRS)					NOAA-4	(CONF 01)							
6	071510Z	10.1N 93.6E	SAT		(IR DATA)					NOAA-4	(CONF 02)							
7	080311Z	10.8N 95.4E	SAT		(T2.0/2.0-/S /25HRS)					NOAA-4	(CONF 02)							
8	080511Z	10.1N 93.8E	SAT		(T1.5/1.5 /S /24HRS)					PCN 5 DMSP								
9	081411Z	11.1N 92.6E	SAT		(IR DATA)					NOAA-4	(CONF 02)							
10	090303Z	11.2N 93.0E	SAT		(T2.0/2.0 /D0.5/24HRS)					PCN 5 DMSP								
11	091506Z	12.1N 94.0E	SAT							NOAA-4	(CONF 02)							
12	100245Z	15.1N 93.5E	SAT		(T3.0/3.0 / / HRS)					PCN 3 DMSP								
13	100245Z	15.1N 93.0E	SAT		(T3.0/3.0 /D1.0/24HRS)					PCN 3 DMSP								
14	100520Z	15.8N 94.0E	SAT		(T1.5/2.5 /W1.0/23HRS)					NOAA-4	(CONF 01)							

FIX POSITIONS FOR TROPICAL CYCLONE NO. 24-75
0600Z 02 MAY TO 0000Z 12 MAY

FIX NO.	TIME	POSIT	FIX CAT	ACCMY NAV-MET	FIX LVL	FLT LVL WIND DIR	MAX OBS WIND VEL	MAX OBS WIND RRG	MAX OBS WIND RNG	SFC WIND VEL	OBS MIN SLP	MIN 700MB HGT	FLT LVL TI/TO	EYE FORM	ORIENTATION	EYE DIA	POSIT OF RADAR	MSN NMBR
1	300412Z	10.7N 72.5E	SAT		(IR DATA)					NOAA-4	(CONF 01)							
2	300438Z	9.5N 72.3E	SAT		(T2.0/2.0 /D1.0/24HRS)					NOAA-4	(CONF 01)							
3	301317Z	10.0N 74.0E	SAT		(IR DATA)					NOAA-4	(CONF 01)							
4	301541Z	10.0N 73.0E	SAT		(IR DATA)					PCN 6 DMSP								
5	010139Z	9.7N 73.7E	SAT		(T2.0/2.0 /S /23HRS)					NOAA-4	(CONF 01)							
6	010422Z	9.5N 72.0E	SAT		(T2.0/2.0 / / HRS)					PCN 5 DMSP								
7	010702Z	9.5N 71.5E	SAT		(IR DATA)					PCN 5 DMSP								
8	011412Z	9.5N 71.8E	SAT		(IR DATA)					NOAA-4	(CONF 01)							
9	011643Z	10.1N 72.6E	SAT		(IR DATA)					PCN 5 DMSP								
10	020406Z	11.0N 72.0E	SAT		(T3.5/3.5 /D1.5/24HRS)					PCN 5 DMSP								
11	020433Z	11.4N 71.5E	SAT		(T4.0/4.0 /D2.0/24HRS)					NOAA-4	(CONF 01)							
12	020643Z	11.1N 71.8E	SAT		(IR DATA)					PCN 4 DMSP								
13	021513Z	10.9N 71.0E	SAT		(IR DATA)					NOAA-4	(CONF 02)							
14	021720Z	11.0N 70.3E	SAT		(IR DATA)					PCN 3 DMSP								
15	030406Z	11.4N 71.0E	SAT		(T4.0/4.0 /S /23HRS)					NOAA-4	(CONF 01)							
16	030625Z	12.1N 72.3E	SAT		(T4.0/4.0 /D0.5/24HRS)					PCN 3 DMSP								
17	031408Z	11.1N 70.0E	SAT		(IR DATA)					NOAA-4	(CONF 02)							
18	031706Z	12.0N 69.0E	SAT		(IR DATA)					PCN 3 DMSP								
19	040427Z	13.5N 70.3E	SAT		(IR DATA)					PCN 3 DMSP								
20	040428Z	12.4N 70.1E	SAT		(T5.0/5.0 /D1.0/25HRS)					NOAA-4	(CONF 01)							
21	040748Z	13.1N 70.3E	SAT		(T4.0/4.0 /S /25HRS)					PCN 3 DMSP								
22	041509Z	12.5N 70.0E	SAT		(IR DATA)					PCN 3 DMSP								
23	042029Z	13.2N 71.3E	SAT		(IR DATA)					PCN 3 DMSP								
24	050409Z	13.3N 70.7E	SAT		(IR DATA)					PCN 3 DMSP								
25	050427Z	13.1N 70.0E	SAT		(T4.0/5.0 /W1.0/23HRS)					NOAA-4	(CONF 01)							
26	050729Z	13.3N 69.2E	SAT		(T5.0/5.0 /D1.0/24HRS)					PCN 3 DMSP								
27	051451Z	13.5N 69.2E	SAT		(IR DATA)					PCN 3 DMSP								
28	051606Z	13.9N 70.0E	SAT		(IR DATA)					NOAA-4	(CONF 02)							
29	060423Z	14.3N 69.1E	SAT		(T3.0/4.0 /W1.0/24HRS)					NOAA-4	(CONF 01)							
30	060432Z	14.5N 70.0E	SAT		(IR DATA)					PCN 3 DMSP								
31	060710Z	14.4N 68.8E	SAT		(T3.5/4.5 /W1.5/24HRS)					PCN 3 DMSP								
32	061504Z	14.0N 67.4E	SAT		(IR DATA)					NOAA-4	(CONF 02)							
33	070414Z	13.6N 67.4E	SAT		(IR DATA)					PCN 3 DMSP								
34	070417Z	13.7N 67.5E	SAT		(T3.5/3.5 /D0.5/25HRS)					NOAA-4	(CONF 01)							
35	070522Z	13.4N 66.5E	SAT		(T4.5/4.5 /D1.0/24HRS)					PCN 3 DMSP								
36	080417Z	15.1N 65.9E	SAT		(T2.5/3.0 /W1.0/23HRS)					NOAA-4	(CONF 01)							
37	080515Z	14.7N 66.4E	SAT							PCN 3 DMSP								
38	081437Z	14.1N 65.6E	SAT		(IR DATA)					PCN 2 DMSP								
39	081554Z	15.1N 65.0E	SAT		(IR DATA)					NOAA-4	(CONF 01)							
40	090437Z	15.1N 65.1E	SAT		(IR DATA)					PCN 3 DMSP								
41	090511Z	15.1N 65.9E	SAT		(T4.0/4.0 /D1.5/25HRS)					NOAA-4	(CONF 02)							
42	090700Z	15.3N 65.5E	SAT		(T4.0/5.0 /W1.5/23HRS)					PCN 3 DMSP								
43	091556Z	16.0N 66.0E	SAT		(IR DATA)					NOAA-4	(CONF 01)							
44	091619Z	15.8N 65.0E	SAT		(IR DATA)					PCN 4 DMSP								
45	100413Z	16.0N 65.0E	SAT		(T2.5/2.5 /W1.5/23HRS)					NOAA-4	(CONF 01)							
46	100748Z	16.5N 64.2E	SAT		(T2.5/3.5 /W1.5/24HRS)					PCN 3 DMSP								
47	101417Z	16.2N 65.7E	SAT		(IR DATA)					PCN 3 DMSP								
48	101549Z	16.4N 64.8E	SAT		(IR DATA)					NOAA-4	(CONF 01)							
49	110422Z	16.4N 63.9E	SAT		(T2.0/2.5 /W0.5/21HRS)					PCN 3 DMSP								
50	110509Z	18.0N 65.1E	SAT		(T1.0/1.0 /W1.5/25HRS)					NOAA-4	(CONF 02)							
51	111550Z	18.0N 63.0E	SAT		(IR DATA)					NOAA-4	(CONF 02)							
52	112000Z	18.0N 64.5E	SAT		(IR DATA)					PCN 3 DMSP								

FIX POSITIONS FOR TROPICAL CYCLONE NO. 25-75
20002 05 MAY TO 0H00Z 08 MAY

FIX NO.	TIME	POSIT	FIX CAT	ACCRY NAV-MET	FIX LVL	FLT LVL WIND DIR VEL	MAX OBS WIND BRG	RNG	MAX OBS SFC WIND VEL	BRG	RNG	OBS MIN SLP	MIN 700MB HGT	FLT LVL TT/TD	EYE FORM	ORIENTATION	EYE DIA	POSIT OF RADAR	MSN NMBR
1	050128Z	12.7N 95.4E	SAT		/T2.5/2.5 /	/ HRS)			PCN 5 DMSP										
2	050348Z	13.3N 96.1E	SAT		/T1.5/1.5 /	/ HRS)			PCN 3 DMSP										
3	050548Z	13.5N 96.0E	SAT		/T3.0/3.0 /	/ HRS)			PCN 5 DMSP										
4	051409Z	14.0N 95.2E	SAT		/IR DATA	)			NOAA-9			(CONF 02)							
5	051409Z	14.5N 94.6E	SAT		/IR DATA	)			PCN 3 DMSP										
6	051409Z	14.5N 94.5E	SAT						PCN 5 DMSP										
7	060227Z	15.2N 94.0E	SAT		/T4.0/4.0 /D2.0/24HRS)				NOAA-9			(CONF 01)							
8	060517Z	15.3N 94.1E	SAT		/T3.0/3.0 /D1.5/24HRS)				PCN 3 DMSP										
9	060517Z	15.4N 94.5E	SAT		/IR DATA	)			PCN 3 DMSP										
10	060529Z	15.1N 94.0E	SAT		/IR DATA	)			PCN 3 DMSP										
11	060529Z	14.8N 94.3E	SAT		/T4.0/4.0 /	/ HRS)			PCN 1 DMSP										
12	061151Z	15.8N 93.2E	SAT		/IR DATA	)			PCN 1 DMSP										
13	061505Z	15.5N 92.9E	SAT		/IR DATA	)			NOAA-9			(CONF 01)							
14	061810Z	15.6N 93.0E	SAT		/IR DATA	)			PCN 2 DMSP										
15	070322Z	16.4N 93.9E	SAT		/T5.5/5.5 /D1.5/25HRS)				NOAA-9			(CONF 02)							
16	070510Z	16.6N 93.5E	SAT		/T4.5/4.5 /	/ HRS)			PCN 1 DMSP										
17	070510Z	16.5N 93.6E	SAT		/T5.0/5.0 /D2.0/24HRS)				PCN 1 DMSP										
18	071406Z	17.3N 95.0E	SAT		/IR DATA	)			NOAA-9			(CONF 01)							
19	071751Z	17.0N 94.2E	SAT		/IR DATA	)			PCN 5 DMSP										
20	080214Z	18.2N 96.5E	SAT		/IR DATA	)			PCN 3 DMSP										
21	080452Z	18.8N 96.9E	SAT		/T3.0/4.0 /W1.5/24HRS)				PCN 3 DMSP										
22	080452Z	18.5N 96.7E	SAT		/T3.0/4.0 /W1.0/24HRS)				PCN 3 DMSP										

FIX POSITIONS FOR TROPICAL CYCLONE NO. 28-75
20002 20 OCT TO 0H00Z 22 OCT

FIX NO.	TIME	POSIT	FIX CAT	ACCRY NAV-MET	FIX LVL	FLT LVL WIND DIR VEL	MAX OBS WIND BRG	RNG	MAX OBS SFC WIND VEL	BRG	RNG	OBS MIN SLP	MIN 700MB HGT	FLT LVL TT/TD	EYE FORM	ORIENTATION	EYE DIA	POSIT OF RADAR	MSN NMBR
1	190416Z	16.0N 72.0E	SAT		/T1.5/1.5 /D0.5/24HRS)				NOAA-9			(CONF 02)							
2	191552Z	17.9N 72.0E	SAT		/IR DATA	)			NOAA-9			(CONF 02)							
3	200139Z	14.4N 70.6E	SAT		/T2.0/2.0 /	/ HRS)			PCN 3 DMSP										
4	200746Z	14.8N 70.6E	SAT		/IR DATA	)			PCN 3 DMSP										
5	201552Z	14.6N 69.1E	SAT		/IR DATA	)			PCN 5 DMSP										
6	210352Z	19.5N 68.3E	SAT		/T3.0/3.0 /D1.0/26HRS)				PCN 3 DMSP										
7	210505Z	19.4N 68.5E	SAT		/T4.0/4.0 /D1.5/25HRS)				NOAA-9			(CONF 01)							
8	210727Z	19.7N 68.1E	SAT		/IR DATA	)			PCN 1 DMSP										
9	211122Z	19.9N 68.2E	SAT		/IR DATA	)			PCN 1 DMSP										
10	211507Z	20.4N 68.4E	SAT		/IR DATA	)			NOAA-9			(CONF 01)							
11	211836Z	20.2N 68.3E	SAT						PCN 1 DMSP										
12	220346Z	20.9N 68.9E	SAT		/T5.0/5.0-/D2.0/24HRS)				PCN 1 DMSP										
13	220404Z	20.5N 69.0E	SAT		/T5.0/5.0-/D1.0/23HRS)				NOAA-9			(CONF 01)							
14	221452Z	21.1N 69.5E	SAT		/IR DATA	)			NOAA-9.			(CONF 02)							

FIX POSITIONS FOR TROPICAL CYCLONE NO. 29-75
20002 07 NOV TO 0H00Z 12 NOV

FIX NO.	TIME	POSIT	FIX CAT	ACCRY NAV-MET	FIX LVL	FLT LVL WIND DIR VEL	MAX OBS WIND BRG	RNG	MAX OBS SFC WIND VEL	BRG	RNG	OBS MIN SLP	MIN 700MB HGT	FLT LVL TT/TD	EYE FORM	ORIENTATION	EYE DIA	POSIT OF RADAR	MSN NMBR
1	060224Z	12.8N 88.9E	SAT		/T1.5/1.5 /	/ HRS)			PCN 5 DMSP										
2	060732Z	11.4N 89.7E	SAT		/T1.0/1.0 /D0.5/24HRS)				NOAA-9			(CONF 01)							
3	061505Z	12.4N 86.6E	SAT		/IR DATA	)			PCN 6 DMSP										
4	061509Z	13.4N 87.5E	SAT		/IR DATA	)			NOAA-9			(CONF 02)							
5	070327Z	13.2N 85.1E	SAT		/T1.0/1.0 /S	/25HRS)			NOAA-9			(CONF 01)							
6	071410Z	14.1N 83.8E	SAT		/IR DATA	)			PCN 5 DMSP										
7	071803Z	14.2N 83.0E	SAT		/IR DATA	)			NOAA-9			(CONF 01)							
8	080228Z	15.0N 82.5E	SAT		/T3.0/3.0 /D2.0/24HRS)				NOAA-9			(CONF 02)							
9	080429Z	15.2N 81.5E	SAT		/T3.0/3.0 /D1.5/24HRS)				PCN 5 DMSP										
10	081558Z	16.5N 82.0E	SAT		/IR DATA	)			PCN 5 DMSP										
11	090101Z	18.5N 83.4E	SAT		/T4.0/4.0-/D1.0/24HRS)				PCN 5 DMSP										
12	090410Z	19.3N 84.0E	SAT		/IR DATA	)			PCN 6 DMSP										
13	100252Z	18.6N 87.3E	SAT		/T2.5/3.5 /W1.5/24HRS)				PCN 5 DMSP										
14	101439Z	19.2N 89.0E	SAT						PCN 5 DMSP										
15	110037Z	22.3N 91.3E	SAT		/T3.0/3.0 /D0.5/22HRS)				PCN 5 DMSP										
16	111321Z	22.8N 91.4E	SAT		/IR DATA	)			PCN 5 DMSP										
17	120152Z	22.1N 92.0E	SAT		/T1.0/2.0 /W2.0/26HRS)				PCN 5 DMSP										

FIX POSITIONS FOR TROPICAL CYCLONE NO. 33-75
0600Z 25 NOV TO 0600Z 01 DEC

FIX NO.	TIME	POSIT		FIX CAT	ACCMY NAV-MET	FIX LVL	FLT LVL WIND DIR	MAX OBS VEL	MAX OBS RNG	SFC WIND DIR	MAX OBS VEL	MAX OBS RNG	OBS MIN SLP	MIN 700MB HGT	FIT LVL TI/TO	EYE FORM	ORIENTATION	EYE DIA	POSIT OF RADAR	MSN NMBR
1	2400Z	11.3N	84.4E	SAT	(TI.5/1.5 /	/	MHS)			PCN 3	DMSP									
2	2406Z	10.7N	86.0E	SAT	(TI.5/1.5 /D1.0/24HRS)					NOAA-4			(CONF 01)							
3	2410Z	10.3N	84.6E	SAT	(IR DATA		)			PCN 5	DMSP									
4	2414Z	12.0N	82.3E	SAT	(IR DATA		)			NOAA-4			(CONF 01)							
5	2501Z	12.1N	84.5E	SAT	(TI.5/1.5 /S	/22HRS)				PCN 5	DMSP									
6	2502Z	12.5N	88.6E	SAT	(T2.0/2.0-/D0.5/23HRS)					NOAA-4			(CONF 02)							
7	2503Z	12.3N	85.6E	SAT	(IR DATA		)			PCN 6	DMSP									
8	2514Z	12.6N	82.2E	SAT	(IR DATA		)			PCN 5	DMSP									
9	2515Z	12.5N	80.8E	SAT	(IR DATA		)			NOAA-4			(CONF 02)							
10	2601Z	12.7N	80.6E	SAT	(T2.0/2.0 /D0.5/24HRS)					PCN 6	DMSP									
11	2603Z	11.9N	80.4E	SAT	(IR DATA		)			PCN 3	DMSP									
12	2603Z	11.9N	80.1E	SAT	(T2.0/2.0-/S	/23HRS)				NOAA-4			(CONF 02							
13	2614Z	15.4N	79.3E	SAT	(IR DATA		)			NOAA-4			(CONF 02)							
14	2704Z	14.0N	80.5E	SAT	(T2.0/2.0 /S	/24HRS)				PCN 5	DMSP									
15	2702Z	13.6N	82.1E	SAT	(T2.0/2.0 /S	/23HRS)				NOAA-4			(CONF 02)							
16	2702Z	13.6N	82.3E	SAT	(IR DATA		)			PCN 3	DMSP									
17	2715Z	15.5N	83.0E	SAT	(IR DATA		)			NOAA-4			(CONF 01)							
18	2803Z	14.0N	87.0E	SAT	(T1.0/2.0 /W1.0/25HRS)					NOAA-4			(CONF 03)							
19	2814Z	15.5N	87.0E	SAT	(IR DATA		)			NOAA-4			(CONF 01)							
20	2902Z	14.1N	86.3E	SAT	(T2.5/2.5 /D1.5/23HRS)					NOAA-4			(CONF 01)							
21	2907Z	13.2N	88.9E	SAT	(T2.0/2.0 /	/	MHS)			PCN 5	DMSP									
22	2915Z	14.0N	85.9E	SAT	(IR DATA		)			NOAA-4			(CONF 02)							
23	3000Z	11.3N	87.8E	SAT	(T1.5/2.0 /W0.5/17HRS)					PCN 5	DMSP									
24	3001Z	11.3N	87.8E	SAT	(IR DATA		)			PCN 5	DMSP									
25	3003Z	12.4N	87.7E	SAT	(T1.5/2.5 /W1.0/25HRS)					NOAA-4			(CONF 01)							
26	3012Z	14.3N	86.2E	SAT	(IR DATA		)			PCN 6	DMSP									
27	3014Z	14.4N	86.9E	SAT	(IR DATA		)			NOAA-4			(CONF 02)							
28	0101Z	15.0N	85.0E	SAT	(T1.5/1.5 /S	/23HRS)				PCN 3	DMSP									
29	0102Z	14.7N	87.0E	SAT	(T1.5/1.5 /S	/23HRS)				NOAA-4			(CONF 01)							
30	0104Z	15.0N	85.9E	SAT	(IR DATA		)			PCN 3	DMSP									
31	0115Z	16.4N	85.5E	SAT	(IR DATA		)			NOAA-4			(CONF 02)							
32	0203Z	14.2N	85.5E	SAT	(T1.5/1.5 /S	/25HRS)				NOAA-4			(CONF 02)							
33	0214Z	15.4N	84.5E	SAT	(IR DATA		)			NOAA-4			(CONF 02)							